

Public Works and **Government Services** Canada

Travaux publics et Services gouvernementaux Canada

Title - Sujet

1000322116

RFP Resource & Solution Based

Requisition No. - N° de la demande

Client Reference No. - N° de référence du client

Contract No. - Nº du contrat

47060-152116/001/EL

Purchasing Office - Bureau des achats:						
	Puranu dae achai	D	Office	ina	hac	Ditea

Informatics Professional Services - EL Division/Services professionnels en informatique - division EL 4C2, Place du Portage Gatineau Ouébec K1A 0S5

615el.47060-152116	
Financial Code(s) Code(s) financier(s)	
1911-100-10 20008576 254	7/34201

## **CONTRACT - CONTRAT**

Your proposal is accepted to sell to Her Majesty the Queen in right of Canada, in accordance with the terms and conditions set out herein, referred to herein or attached hereto, the goods, services, and construction listed herein and on any attached sheets at the price or prices set out therefor.

Nous acceptons votre proposition de vendre à Sa Majesté la Reine du chef du Canada, aux conditions énoncées ou incluses par référence dans les présentes, et aux annexes ci-jointes, les biens, services et construction énumérés dans les présentes, et sur toute feuille ci-annexée, au(x) prix indiqué(s).

**Comments - Commentaires** 

Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur 102444452PG0013

IBM CANADA LIMITED/IBM CANADA LIMITÉE

3755 Riverside Drive Ottawa Ontario K1G4K9 Canada

47060-152116			
File No N° de dossier	CCC No./N° CCC	- FMS No./N° \	VME
615el.47060-152116			
Financial Code(s) Code(s) financier(s) 1911-100-10 20008576 254	7/34201		GST/HST TPS/TVH
F.O.B F.A.B. Destination			
GST/HST - TPS/TVH	Duty - Droits		
Included - Inclus	See Herein - Vo	oir ci-inclus	
Invoices - Original and two Factures - Envoyer l'origina Canada Border Service Agendes des services frontali vendors-fournisseurs@cbsa-(National Invoice #252-01	copies to be sent to the tet deux copies à: ncy ers du Canada easfc.gc.ca (Preferr	on: CBSA)	
Montreal Quebec H2Y 2E7			
Address Enquiries to: - Adre Ghaddab, Nabil	esser toutes quest	ions à:	Buyer ld - ld de l'acheteur 615el
Telephone No N° de télépi (973) 469-4984 ( )	hone	FAX No N°	de FAX
Total Estimated Cost - Coût \$1,756,358.10	total estimatif	Currency Ty CAD	pe - Devise
For the Minister - Pour le M	inistre	Polo	

Date

2017-01-30





Travaux publics et Services gouvernementaux Canada

Purchasing	Office -	Bureau	des	achats:

Informatics Professional Services - EL Division/Services professionnels en informatique - division EL 4C2, Place du Portage

Gatineau

Québec			
K1A 0S5			

## **CONTRACT - CONTRAT**

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**Comments - Commentaires** 

Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur

102444452PG0013 IBM CANADA LIMITED/IBM CANADA LIMITÉE 3755 Riverside Drive

Ottawa Ontario K1G4K9 Canada

Based		
Contract No N° du contrat Date		
	2017-01-30	
référence du client		
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Invoices - Original and two copies to be sent to: Factures - Envoyer l'original et deux copies à:

Canada Border Service Agency Agence des services frontaliers du Canada vendors-fournisseurs@cbsa-asfc.gc.ca (Preferred) (National Invoice Reception Unit) 105 Rue McGill #250-01 Montreal Quebec H2Y 2E7

Address Enquiries to: - Adresser toutes questions à:		Buyer ld - ld de l'acheteur
Ghaddab, Nabil		615el
Telephone No N° de téléphone         FAX No N°           (973) 469-4984 ( )         ( ) -		de FAX
Total Estimated Cost - Coût total estimatif \$1,756,358.10 Currency Type - Devise CAD		pe - Devise
For the Minister - Pour le Ministre		



Page 1 of - de 1 000002

## CONTRACT AGAINST A SUPPLY ARRANGEMENT FOR TASK-BASED INFORMATICS PROFESSIONAL SERVICES (TBIPS)

## **FOR**

# VARIOUS RESOURCE CATEGORIES – LEVEL 3 (SEE HEREIN)

ON BEHALF OF

THE CANADA BORDER SERVICES AGENCY

## This document contains a security requirement

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## **List of Annexes to the Resulting Contract:**

- Annex A Statement of Work
  - Appendix A Non-Functional Requirements
  - Appendix B Acronyms
  - Appendix C Glossary
  - Appendix D Tasking Assessment Procedure
  - Appendix E Task Authorization (TA) Form
  - Appendix F Resources Assessment Criteria and Response Table
  - Appendix G Certifications at the TA Stage
- Annex B Basis of Payment
- Annex C Security Requirements Check List
   Annex D Non-Disclosure Agreement

### 1. Requirement

- (a) IBM Canada Limited (the "Contractor") agrees to supply to the Client the services described in the Contract, including the Statement of Work, in accordance with, and at the prices set out in, the Contract. This includes providing professional services as and when requested by Canada, to one or more locations to be designated by Canada, excluding any locations in areas subject to any of the Comprehensive Land Claims Agreements.
- (b) Client: Under the Contract, the "Client" is Canada Border Services Agency (CBSA).
- (c) Reorganization of Client: The Contractor's obligation to perform the Work will not be affected by (and no additional fees will be payable as a result of) the renaming, reorganization, reconfiguration, or restructuring of any Client. The reorganization, reconfiguration and restructuring of the Client includes the privatization of the Client, its merger with another entity, or its dissolution, where that dissolution is followed by the creation of another entity or entities with mandates similar to the original Client. In connection with any form of reorganization, Canada may designate another department or government body as the Contracting Authority or Project Authority, as required to reflect the new roles and responsibilities associated with the reorganization.
- (d) **Defined Terms**: Words and expressions defined in the General Conditions or Supplemental General Conditions and used in the Contract have the meanings given to them in the General Conditions or Supplemental General Conditions. Any reference to an Identified User in the Supply Arrangement is a reference to the Client. Also, any reference to a "deliverable" or "deliverables" includes all documentation outlined in this Contract. A reference to a "local office" of the Contractor means an office having at least one full time employee that is not a shared resource working at that location.

#### 2. Task Authorization

- (a) As-and-when-requested Task Authorizations: The Work or a portion of the Work to be performed under the Contract will be on an "as-and-when-requested basis" using a Task Authorization (TA). The Work described in the TA must be in accordance with the scope of the Contract. The Contractor must not commence work until a validly issued TA has been issued by Canada and received by the Contractor. The Contractor acknowledges that any work performed before such issuance and receipt will be done at the Contractor's own risk.
- (b) **Assessment of Resources Proposed at TA Stage**: Processes for issuing, responding to and assessing Task Authorizations are further detailed in Appendices D, E, F and G of Annex A.
- (c) Form and Content of draft Task Authorization:
  - (i) The Project Authority will provide the Contractor with a description of the task in a draft Task Authorization using the form specified in Annex A.
  - (ii) The draft Task Authorization will contain the details of the activities to be performed, and must also contain the following information:
    - (A) the task number;
    - (B) The date by which the Contractor's response must be received (which will appear in the draft Task Authorization, but not the issued Task Authorization);
    - (C) the details of any financial coding to be used;
    - (D) the categories of resources and the number required;
    - (E) a description of the work for the task outlining the activities to be performed and identifying any deliverables (such as reports);
    - (F) the start and completion dates;
    - (G) milestone dates for deliverables and payments (if applicable);

- (H) the number of person-days of effort required;
- (I) whether the work requires on-site activities and the location;
- (J) the language profile of the resources required;
- (K) the level of security clearance required of resources;
- (L) the price payable to the Contractor for performing the task under a maximum TA price (the TA must indicate how the final amount payable will be determined; where the TA does not indicate how the final amount payable will be determined, the amount payable is the amount, up to the maximum, that the Contractor demonstrates was actually worked on the project, by submitting time sheets filled in at the time of the work by the individual resources to support the charges); and
- (M) any other constraints that might affect the completion of the task.
- (d) Contractor's Response to Draft Task Authorization: The Contractor must provide to the Project Authority, within 3 working days of receiving the draft Task Authorization (or within any longer time period specified in the draft TA), the proposed total price for performing the task and a breakdown of that cost, established in accordance with the Basis of Payment specified in the Contract. The Contractor's quotation must be based on the rates set out in the Contract. The Contractor will not be paid for preparing or providing its response or for providing other information required to prepare and validly issue the TA.
- (e) Task Authorization Limit and Authorities for Validly Issuing Task Authorizations:

To be validly issued, a TA must include the following signatures:

- (A) for any TA, inclusive of revisions, with a value less than or equal to \$300,000.00 (excluding Applicable Taxes), the TA must be signed by the Project Authority; and
- (B) for any TA, inclusive of revisions, with a value greater than this amount, a TA must include the following signatures:
  - (1) the Project Authority; and
  - (2) the Contracting Authority.

Any TA that does not bear the appropriate signature(s) is not validly issued by Canada. Any work performed by the Contractor without receiving a validly issued TA is done at the Contractor's own risk. If the Contractor receives a TA that is not appropriately signed, the Contractor must notify the Contracting Authority. By providing written notice to the Contractor, the Contracting Authority may suspend the Client's ability to issue TA's at any time, or reduce the dollar value threshold described in sub-article (i) above; any suspension or reduction notice is effective upon receipt.

#### (f) Periodic Usage Reports:

- (i) The Contractor must compile and maintain records on its provision of services to the federal government under Task Authorizations validly issued under the Contract. The Contractor must provide this data to Canada in accordance with the reporting requirements detailed below. If some data is not available, the reason must be indicated. If services are not provided during a given period, the Contractor must still provide a "NIL" report. The data must be submitted on a quarterly basis to the Contracting Authority. From time to time, the Contracting Authority may also require an interim report during a reporting period.
- (ii) The quarterly periods are defined as follows:
  - (A) 1st quarter: April 1 to June 30;
  - (B) 2<sup>nd</sup> quarter: July 1 to September 30;
  - (C) 3<sup>rd</sup> quarter: October 1 to December 31; and

(D) 4th quarter: January 1 to March 31.

The data must be submitted to the Contracting Authority no later than 15 calendar days after the end of the reporting period.

- (iii) Each report must contain the following information for each validly issued TA (as amended):
  - (A) the Task Authorization number and the Task Authorization Revision number(s), if applicable;
  - (B) a title or a brief description of each authorized task;
  - (C) the name, Resource category and level of each resource involved in performing the TA, as applicable;
  - (D) the total estimated cost specified in the validly issued TA of each task, exclusive of Applicable Taxes;
  - (E) the total amount, exclusive of Applicable Taxes, expended to date against each authorized task:
  - (F) the start and completion date for each authorized task; and
  - (G) the active status of each authorized task, as applicable (e.g., indicate whether work is in progress or if Canada has cancelled or suspended the TA, etc.).
- (g) Refusal of Task Authorizations or Submission of a Response which is not Valid: The Contractor is not required to submit a response to every draft TA sent to it by Canada. However, in addition to Canada's other rights to terminate the Contract, Canada may immediately, and without further notice, terminate the Contract for default in accordance with the General Conditions if the Contractor in at least three instances has either not responded or has not submitted a valid response when sent a draft TA. For greater clarity, each draft TA, which is identifiable by its task number, will only count as one instance. A valid response is one that is submitted within the required time period and meets all requirements of the draft TA issued, including proposing the required number of resources who each meet the minimum experience and other requirements of the categories identified in the draft TA at pricing not exceeding the rates set out in Annex B.
- (h) **Consolidation of TA's for Administrative Purposes**: The Contract may be amended from time to time to reflect all validly issued Task Authorizations to date, to document the Work performed under those TA's for administrative purposes.
- 3. Minimum Work Guarantee
- (a) In this clause,
  - "Maximum Contract Value" means the amount specified in the "Limitation of Expenditure" clause set out in the Contract (excluding Applicable Taxes); and
  - (ii) "Minimum Contract Value" means \$20,000.00.
- (b) Canada's obligation under the Contract is to request Work in the amount of the Minimum Contract Value or, at Canada's option, to pay the Contractor at the end of the Contract in accordance with sub-article (c), subject to sub-article (d). In consideration of such obligation, the Contractor agrees to stand in readiness throughout the Contract Period to perform the Work described in the Contract. Canada's maximum liability for work performed under the Contract must not exceed the Maximum Contract Value, unless an increase is authorized in writing by the Contracting Authority.
- (c) In the event that Canada does not request work in the amount of the Minimum Contract Value during the Contract Period, Canada must pay the Contractor the difference between the Minimum Contract Value and the total cost of the Work requested.

- (d) Canada will have no obligation to the Contractor under this article if Canada terminates the entire Contract
  - (i) for default;
  - (ii) for convenience as a result of any decision or recommendation of a tribunal or court that the contract be cancelled, re-tendered or awarded to another supplier; or
  - (iii) for convenience within ten business days of Contract award.

#### 4. Standard Clauses and Conditions

All clauses and conditions identified in the Contract by number, date and title are set out in the Standard Acquisition Clauses and Conditions Manual (https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual) issued by Public Works and Government Services Canada.

#### (a) General Conditions:

(i) 2035 (2016-04-04), General Conditions - Higher Complexity - Services, apply to and form part of the Contract.

With respect to Section 30 - Termination for Convenience, of General Conditions 2035, Subsection 04 is deleted and replaced with the following Subsections 04, 05 and 06:

- 4. The total of the amounts, to which the Contractor is entitled to be paid under this section, together with any amounts paid, due or becoming due to the Contractor must not exceed the Contract Price.
- 5. Where the Contracting Authority terminates the entire Contract and the Articles of Agreement include a Minimum Work Guarantee, the total amount to be paid to the Contractor under the Contract will not exceed the greater of:
  - (a) the total amount the Contractor may be paid under this section, together with any amounts paid, becoming due other than payable under the Minimum Revenue Guarantee, or due to the Contractor as of the date of termination, or
  - (b) the amount payable under the Minimum Work Guarantee, less any amounts paid, due or otherwise becoming due to the Contractor as of the date of termination.
- 6. The Contractor will have no claim for damages, compensation, loss of profit, allowance arising out of any termination notice given by Canada under this section except to the extent that this section expressly provides. The Contractor agrees to repay immediately to Canada the portion of any advance payment that is unliquidated at the date of the termination.

## (b) Supplemental General Conditions:

The following Supplemental General Conditions:

- 4002 (2010-08-16), Supplemental General Conditions Software Development or Modification Services;
- (ii) 4006 (2010-08-16), Supplemental General Conditions Contractor to Own Intellectual Property Rights in Foreground Information;

apply to and form part of the Contract.

#### 5. Security Requirement

- (a) The following security requirements apply to and form part of the Contract:
  - (i) The Contractor must, at all times during the performance of the Contract, hold a valid Facility Security Clearance at the level of SECRET, issued by the Canadian Industrial Security Directorate (CISD), Public Works and Government Services Canada (PWGSC).

- (ii) The Contractor personnel requiring access to PROTECTED/CLASSIFIED information, assets or sensitive work site(s) must EACH hold a valid personnel security screening at the level of **SECRET**, granted or approved by CISD/PWGSC.
- (iii) The Contractor MUST NOT remove any PROTECTED/CLASSIFIED information from the identified work site(s), and the Contractor must ensure that its personnel are made aware of and comply with this restriction.
- (iv) Subcontracts which contain security requirements are NOT to be awarded without the prior written permission of CISD/PWGSC.
- (v) The Contractor must comply with the provisions of the:
  - (A) Security Requirements Check List and security guide (if applicable), attached at Annex C;
  - (B) Industrial Security Manual (Latest Edition).
- (b) Additional Security Requirement
  - (i) The CBSA, will conduct its own personnel Reliability Status assessment the Contractor (specifically the Contractor personnel), which is allowed under the Treasury Board Secretariat of Canada's (TBS) "Security and Contracting Management Standard" and the Policy on Government Security Personnel Security Standard. Reliability Status assessment conducted by the CBSA will include a credit check.
  - (ii) If the Contractor (specifically the Contractor personnel), has already been screened under the TBS Policy on Government Security - Personnel Security Standard, the Contractor (specifically the Contractor personnel), will still undergo a security screening process to be conducted by the CBSA.
  - (iii) The credit check and fingerprinting, if required, will be performed by an authorized security official with the CBSA's "Personnel Security Screening Section" (PSSS), which is independent of the Public Works and Government Services Canada's (PWGSC), "Canadian and International Industrial Security Directorate" (CIISD).
  - (iv) Until the credit check, fingerprinting (if required) and all other security screening processes required have been completed and the Contractor (specifically the Contractor personnel) is deemed suitable by the CBSA, the Contractor (specifically the Contractor personnel) will not be permitted access to Protected / Classified information or assets, and further, will not be permitted to enter sites where such information or assets are kept.
- (c) The Company Security Officer (CSO) must ensure through the Industrial Security Program (ISP) that the Contractor and individual(s) hold a valid security clearance at the required level.

#### 6. Contract Period

- (a) **Contract Period**: The **"Contract Period"** is the entire period of time during which the Contractor is obliged to perform the Work, which includes:
  - (i) The "Initial Contract Period", which begins on the date the Contract is awarded and ends one year later; and
  - (ii) The period during which the Contract is extended, if Canada chooses to exercise any options set out in the Contract.

#### (b) Option to Extend the Contract:

(i) The Contractor grants to Canada the irrevocable option to extend the term of the Contract by up to five additional one-year periods under the same terms and conditions.

The Contractor agrees that, during the extended period of the Contract, it will be paid in accordance with the applicable provisions set out in the Basis of Payment.

(ii) Canada may exercise this option at any time by sending a written notice to the Contractor before the expiry date of the Contract. The option may only be exercised by the Contracting Authority, and will be evidenced, for administrative purposes only, through a contract amendment.

#### 7. Authorities

#### (a) Contracting Authority

The Contracting Authority for the Contract is:

Name: Nabil Ghaddab Title: Supply Specialist

Public Works and Government Services Canada

Acquisitions Branch

Directorate: Space, Innovation, and Informatics Projects Directorate

Address: 11 Laurier St., Gatineau, Québec

Telephone: 873-469-4984

E-mail address: nabil.qhaddab@tpsqc-pwqsc.qc.ca

The Contracting Authority is responsible for the management of the Contract and any changes to the Contract must be authorized in writing by the Contracting Authority. The Contractor must not perform work in excess of or outside the scope of the Contract based on verbal or written requests or instructions from anybody other than the Contracting Authority.

### (b) Project Authority

The Project Authority for the Contract is:

Erin Lapensee

Telephone: 343-291-6223

Email: Erin.Lapensee@cbsa-asfc.gc.ca

Address: 355 North River Road, Tower B, 17th Floor, Ottawa, Ontario, K1A 0L8, Canada

The Project Authority is the representative of the department or agency for whom the Work is being carried out under the Contract and is responsible for all matters concerning the technical content of the Work under the Contract. Technical matters may be discussed with the Project Authority; however, the Project Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of the Work can only be made through a contract amendment issued by the Contracting Authority.

In his absence, the Project Authority is:

Robert Penwarden

Telephone: 343-291-5669

Email: Robert.Penwarden@cbsa-asfc.gc.ca

Address: 355 North River Road, Tower B, 17th Floor, Ottawa, Ontario, K1A 0L8, Canada

OR

Matthew Woods

Telephone: 343-291-5726

Email: Matthew.Woods@cbsa-asfc.gc.ca

Address: 355 North River Road, Tower B, 17th Floor, Ottawa, Ontario, K1A 0L8, Canada

#### (c) Contractor's Representative

Name: Wayne Liepmann
Title: Solution Representative

Organization: IBM Canada Ltd.

Address: 3755 Riverside Drive, Ottawa, ON, K1G 4K9

Telephone: E-mail address:

#### 8. Proactive Disclosure of Contracts with Former Public Servants

By providing information on its status, with respect to being a former public servant in receipt of a <u>Public Service Superannuation Act</u> (PSSA) pension, the Contractor has agreed that this information will be reported on departmental web sites as part of the published proactive disclosure reports, in accordance with Contracting Policy Notice: 2012-2 of the Treasury Board Secretariat of Canada.

#### 9. Payment

#### (a) Basis of Payment

- (i) Professional Services provided under a Task Authorization with a Maximum Price: For professional services requested by Canada, in accordance with a validly issued Task Authorization, Canada will pay the Contractor, in arrears, up to the Maximum Price for the TA, for actual time worked and any resulting deliverables in accordance with the firm all-inclusive per diem rates set out in Annex B, Basis of Payment, Applicable Taxes extra. Partial days will be prorated based on actual hours worked based on a 7.5-hour workday.
- (ii) Travel and Living Expenses National Joint Council Travel Directive The Contractor will be reimbursed its authorized travel and living expenses reasonably and properly incurred in the performance of the Work, at cost, without any allowance for profit and/or administrative overhead, in accordance with the meal, private vehicle and incidental expenses provided in Appendices B, C and D of the National Joint Council Travel Directive and with the other provisions of the directive referring to "travellers", rather than those referring to "employees". All travel must have the prior authorization of the Contracting Authority. Travel requests will only be considered for a work location which is located more than 100 kilometers from the National Capital Region. The Contractor will be paid for actual time spent travelling at half the hourly rate. The hourly rate will be determined by dividing the firm per diem rate set out in Annex B by 7.5 hours. All payments are subject to government audit.
- (iii) Competitive Award: The Contractor acknowledges that the Contract has been awarded as a result of a competitive process. No additional charges will be allowed to compensate for errors, oversights, misconceptions or underestimates made by the Contractor when bidding for the Contract.
- (iv) Professional Services Rates: In Canada's experience, bidders from time to time propose rates at the time of bidding for one or more Resource Categories that they later refuse to honour, on the basis that these rates do not allow them to recover their own costs and/or make a profit. This denies Canada of the benefit of the awarded contract. If the Contractor does not respond or refuses to provide an individual with the qualifications described in the Contract within the time described in the Contract (or proposes instead to provide someone from an alternate category at a different rate), whether or not Canada terminates the Contract as a whole or in part or chooses to exercise any of the

rights provided to it under the general conditions, Canada may impose sanctions or take other measures in accordance with the PWGSC Vendor Performance Corrective Measure Policy (or equivalent) then in effect, which measures may include an assessment that results in conditions applied against the Contractor to be fulfilled before doing further business with Canada, or full debarment of the Contractor from bidding on future requirements.

#### (b) Limitation of Expenditure – Cumulative Total of all Task Authorizations

- (i) Canada's total liability to the Contractor under the Contract for all validly issued Task Authorizations (TAs), inclusive of any revisions, must not exceed the amount set out on page 1 of the Contract, less any Applicable taxes. With respect to the amount set out on page 1 of the Contract, Customs duties are excluded and Applicable Taxes are included
- (ii) No increase in the total liability of Canada will be authorized or paid to the Contractor unless an increase has been approved, in writing, by the Contracting Authority.
- (iii) The Contractor must notify the Contracting Authority in writing as to the adequacy of this sum:
  - (A) when it is 75 percent committed, or
  - (B) 4 months before the contract expiry date, or
  - (C) As soon as the Contractor considers that the sum is inadequate for the completion of the Work required in all authorized TAs, inclusive of any revisions,

whichever comes first.

- (iv) If the notification is for inadequate contract funds, the Contractor must provide to the Contracting Authority a written estimate for the additional funds required. Providing this information does not increase Canada's liability.
- (c) **Method of Payment for Task Authorizations with a Maximum Price**: For each Task Authorization validly issued under the Contract that contains a maximum price:
  - (i) Canada will pay the Contractor no more frequently than once a month in accordance with the Basis of Payment. The Contractor must submit time sheets for each resource showing the days and hours worked to support the charges claimed in the invoice.
  - (ii) Once Canada has paid the maximum TA price, Canada will not be required to make any further payment, but the Contractor must complete all the work described in the TA, all of which is required to be performed for the maximum TA price. If the work described in the TA is completed in less time than anticipated, and the actual time worked (as supported by the time sheets) at the rates set out in the Contract is less than the maximum TA price, Canada is only required to pay for the time spent performing the work related to that TA.

#### (d) Time Verification

Time charged and the accuracy of the Contractor's time recording system are subject to verification by Canada, before or after payment is made to the Contractor. If verification is done after payment, the Contract must repay any overpayment, at Canada's request.

#### (e) Payment Credits

- (i) Failure to Provide Resource:
  - (A) If the Contractor does not provide a required professional services resource that has all the required qualifications within the time prescribed by the Contract, the Contractor must credit to Canada an amount equal to the per diem rate (based on a 7.5-hour workday) of the required resource for each day (or partial day) of delay in providing the resource, up to a maximum of 10 days.

- (B) Corrective Measures: If credits are payable under this Article for two consecutive months or for three months in any 12-month period, the Contractor must submit a written action plan describing measures it will implement or actions it will undertake to eliminate the recurrence of the problem. The Contractor will have five working days to deliver the action plan to the Client and the Contracting Authority and 20 working days to rectify the underlying problem.
- (C) **Termination for Failure to Meet Availability Level**: In addition to any other rights it has under the Contract, Canada may terminate the Contract for default in accordance with the General Conditions by giving the Contractor three months' written notice of its intent, if any of the following apply:
  - (1) the total amount of credits for a given monthly billing cycle reach a level of 10% of the total billing for that month; or
  - (2) the corrective measures required of the Contractor described above are not met.

This termination will be effective when the three month notice period expires, unless Canada determines that the Contractor has implemented the corrective measures to Canada's satisfaction during those three months.

- (ii) Credits Apply during Entire Contract Period: The Parties agree that the credits apply throughout the Contract Period.
- (iii) Credits represent Liquidated Damages: The Parties agree that the credits are liquidated damages and represent their best pre-estimate of the loss to Canada in the event of the applicable failure. No credit is intended to be, nor will it be construed as, a penalty.
- (iv) Canada's Right to Obtain Payment: The Parties agree that these credits are a liquidated debt. To collect the credits, Canada has the right to hold back, draw back, deduct or set off from and against any money Canada owes to the Contractor from time to time.
- (v) Canada's Rights & Remedies not Limited: The Parties agree that nothing in this Article limits any other rights or remedies to which Canada is entitled under the Contract (including the right to terminate the Contract for default) or under the law generally.
- (vi) Audit Rights: The Contractor's calculation of credits under the Contract is subject to verification by government audit, at the Contracting Authority's discretion, before or after payment is made to the Contractor. The Contractor must cooperate fully with Canada during the conduct of any audit by providing Canada with access to any records and systems that Canada considers necessary to ensure that all credits have been accurately credited to Canada in the Contractor's invoices. If an audit demonstrates that past invoices contained errors in the calculation of the credits, the Contractor must pay to Canada the amount the audit reveals was required to be credited to Canada, plus interest, from the date Canada remitted the excess payment until the date of the refund (the interest rate is the Bank of Canada's discount annual rate of interest in effect on the date the credit was first owed to Canada, plus 1.25% per year). If, as a result of conducting an audit, Canada determines that the Contractor's records or systems for identifying, calculating or recording the credits are inadequate, the Contractor must implement any additional measures required by the Contracting Authority.
- (f) No Responsibility to Pay for Work not performed due to Closure of Government Offices
  - (i) Where the Contractor, its employees, subcontractors, or agents are providing services on government premises under the Contract and those premises are inaccessible because of the evacuation or closure of government offices, and as a result no work is performed, Canada is not responsible for paying the Contractor for work that otherwise would have been performed if there had been no evacuation or closure.

(ii) If, as a result of any strike or lock-out, the Contractor or its employees, subcontractors or agents cannot obtain access to government premises and, as a result, no work is performed, Canada is not responsible for paying the Contractor for work that otherwise would have been performed if the Contractor had been able to gain access to the premises

#### 10. Invoicing Instructions

- (a) The Contractor must submit invoices in accordance with the information required in the General Conditions.
- (b) The Contractor's invoice must include a separate line item for each subparagraph in the Basis of Payment provision, and must show all applicable Task Authorization numbers.
- (c) By submitting invoices, the Contractor is certifying that the goods and services have been delivered and that all charges are in accordance with the Basis of Payment provision of the Contract, including any charges for work performed by subcontractors.
- (d) The Contractor must provide the original to CBSA National Invoice Receiving Unit (<u>Vendors-Fournisseurs@cbsa-asfc.gc.ca</u>) for processing, and a copy to the Contracting Authority.

#### 11. Certifications

The continuous compliance with the certifications provided by the Contractor in its bid, any TA quotation and the ongoing cooperation in providing additional information are conditions of the Contract. Certifications are subject to verification by Canada during the entire Contract Period. If the Contractor does not comply with any certification, or fails to provide the additional information, or if it is determined that any certification made by the Contractor in its bid is untrue, whether made knowingly or unknowingly, Canada has the right, pursuant to the default provision of the Contract, to terminate the Contract for default.

### 12. Federal Contractors Program for Employment Equity - Default by Contractor

The Contractor understands and agrees that, when an Agreement to Implement Employment Equity (AIEE) exists between the Contractor and Employment and Social Development Canada (ESDC)-Labour, the AIEE must remain valid during the entire period of the Contract. If the AIEE becomes invalid, the name of the Contractor will be added to the "FCP Limited Eligibility to Bid" list. The imposition of such a sanction by ESDC will constitute the Contractor in default as per the terms of the Contract.

#### 13. Copyright In Material

- (a) In this section, "Material" means anything that is created by the Contractor as part of the Work under the Contract that is required by the Contract to be delivered to Canada and in which copyright subsists, excluding any computer software code and all documentation manuals or guides intended to assist end users or technicians in respect of that code. "Material" does not include anything created by the Contractor before the award date of the Contract.
- (b) Copyright in the Material belongs to Canada and the Contractor must include the copyright symbol and either of the following notice on the Material: © Her Majesty the Queen in right of Canada (year) or © Sa Majesté la Reine du chef du Canada (année).
- (c) The Contractor must not use, copy, divulge or publish any Material except as is necessary to perform the Contract. The Contractor must execute any conveyance and other documents relating to copyright in the Material as Canada may require.
- (d) The Contractor must provide at the request of Canada a written permanent waiver of moral rights, in a form acceptable to Canada, from every author that contributed to the Material. If the Contractor is the author of the Material, the Contractor permanently waives its moral rights in the Material.

## 14. Applicable Laws

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Ontario.

#### 15. Priority of Documents

If there is a discrepancy between the wording of any documents that appear on the following list, the wording of the document that first appears on the list has priority over the wording of any document that appears later on the list:

- (a) these Articles of Agreement, including any individual SACC clauses incorporated by reference in these Articles of Agreement:
- (b) Supplemental General Conditions, in the following order:
  - 4002 (2010-08-16), Supplemental General Conditions Software Development or Modification Services;
  - 4006 (2010-08-16), Supplemental General Conditions Contractor to Own Intellectual Property Rights in Foreground Information;
- (c) General Conditions 2035 (2016-04-04), Higher Complexity Services;
- (d) Annex A, Statement of Work Annex A including its Appendices as follows;
  - (i) Appendix D to Annex A Tasking Assessment Procedure;
  - (ii) Appendix E to Annex A Task Authorization (TA) Form;
  - (iii) Appendix F to Annex A Resource Assessment Criteria and Response Table;
  - (iv) Appendix G to Annex A Certifications at the TA stage;
- (e) Annex B, Basis of Payment;
- (f) Annex C, Security Requirements Check List);
- (g) Annex D, Non-Disclosure Agreement;
- (h) the validly issued Task Authorizations and any required certifications (including all of their annexes, if any); and
- (i) the Contractor's bid dated November 7, 2016.

#### 16. Foreign Nationals (Canadian Contractor)

(a) SACC Manual clause A2000C (2006-06-16) Foreign Nationals (Canadian Contractor)

#### 17. Insurance Requirements

#### (a) Compliance with Insurance Requirements

- (i) The Contractor must comply with the insurance requirements specified in this Article. The Contractor must maintain the required insurance coverage for the duration of the Contract. Compliance with the insurance requirements does not release the Contractor from or reduce its liability under the Contract.
- (ii) The Contractor is responsible for deciding if additional insurance coverage is necessary to fulfill its obligation under the Contract and to ensure compliance with any applicable law. Any additional insurance coverage is at the Contractor's expense, and for its own benefit and protection.
- (iii) The Contractor should forward to the Contracting Authority within ten (10) days after the date of award of the Contract a Certificate of Insurance evidencing the insurance coverage. Coverage must be placed with an Insurer licensed to carry out business in Canada and the Certificate of Insurance must confirm that the insurance policy complying

with the requirements is in force. If the Certificate of Insurance has not been completed and submitted as requested, the Contracting Authority will so inform the Contractor and provide the Contractor with a time frame within which to meet the requirement. Failure to comply with the request of the Contracting Authority and meet the requirement within the time period will constitute a default under the General Conditions. The Contractor must, if requested by the Contracting Authority, forward to Canada a certified true copy of all applicable insurance policies.

#### (b) Commercial General Liability Insurance

- (i) The Contractor must obtain Commercial General Liability Insurance, and maintain it in force throughout the duration of the Contract, in an amount usual for a contract of this nature, but for not less than \$2,000,000 per accident or occurrence and in the annual aggregate.
- (ii) The Commercial General Liability policy must include the following:
  - (A) Additional Insured: Canada is added as an additional insured, but only with respect to liability arising out of the Contractor's performance of the Contract. The interest of Canada should read as follows: Canada, as represented by Public Works and Government Services Canada.
  - (B) Bodily Injury and Property Damage to third parties arising out of the operations of the Contractor.
  - (C) Products and Completed Operations: Coverage for bodily injury or property damage arising out of goods or products manufactured, sold, handled, or distributed by the Contractor and/or arising out of operations that have been completed by the Contractor.
  - (D) Personal Injury: While not limited to, the coverage must include Violation of Privacy, Libel and Slander, False Arrest, Detention or Imprisonment and Defamation of Character.
  - (E) Cross Liability/Separation of Insureds: Without increasing the limit of liability, the policy must protect all insured parties to the full extent of coverage provided. Further, the policy must apply to each Insured in the same manner and to the same extent as if a separate policy had been issued to each.
  - (F) Blanket Contractual Liability: The policy must, on a blanket basis or by specific reference to the Contract, extend to assumed liabilities with respect to contractual provisions.
  - (G) Employees and, if applicable, Volunteers must be included as Additional Insured.
  - (H) Employers' Liability (or confirmation that all employees are covered by Worker's compensation (WSIB) or similar program)
  - (I) Broad Form Property Damage including Completed Operations: Expands the Property Damage coverage to include certain losses that would otherwise be excluded by the standard care, custody or control exclusion found in a standard policy.
  - (J) Notice of Cancellation: The Insurer will endeavour to provide the Contracting Authority thirty (30) days written notice of policy cancellation.
  - (K) If the policy is written on a claims-made basis, coverage must be in place for a period of at least 12 months after the completion or termination of the Contract.
  - (L) Owners' or Contractors' Protective Liability: Covers the damages that the Contractor becomes legally obligated to pay arising out of the operations of a subcontractor.

(M) Advertising Injury: While not limited to, the endorsement must include coverage for piracy or misappropriation of ideas, or infringement of copyright, trademark, title or slogan.

### (c) Errors and Omissions Liability Insurance

- (i) The Contractor must obtain Errors and Omissions Liability (a.k.a. Professional Liability) insurance, and maintain it in force throughout the duration of the Contract, in an amount usual for a contract of this nature but for not less than \$1,000,000 per loss and in the annual aggregate, inclusive of defence costs.
- (ii) If the Professional Liability insurance is written on a claims-made basis, coverage must be in place for a period of at least 12 months after the completion or termination of the Contract.
- (iii) The following endorsement must be included:
   Notice of Cancellation: The Insurer will endeavour to provide the Contracting Authority thirty (30) days written notice of cancellation.

#### 18. Limitation of Liability - Information Management/Information Technology

(a) This section applies despite any other provision of the Contract and replaces the section of the general conditions entitled "Liability". Any reference in this section to damages caused by the Contractor also includes damages caused by its employees, as well as its subcontractors, agents, and representatives, and any of their employees. This section applies regardless of whether the claim is based in contract, tort, or another cause of action. The Contractor is not liable to Canada with respect to the performance of or failure to perform the Contract, except as described in this section and in any section of the Contract pre-establishing any liquidated damages. The Contractor is only liable for indirect, special or consequential damages to the extent described in this Article, even if it has been made aware of the potential for those damages.

#### (b) First Party Liability:

- (i) The Contractor is fully liable for all damages to Canada, including indirect, special or consequential damages, caused by the Contractor's performance or failure to perform the Contract that relate to:
  - (A) any infringement of intellectual property rights to the extent the Contractor breaches the section of the General Conditions entitled "Intellectual Property Infringement and Royalties";
  - (B) physical injury, including death.
- (ii) The Contractor is liable for all direct damages caused by the Contractor's performance or failure to perform the Contract affecting real or tangible personal property owned, possessed, or occupied by Canada.
- (iii) Each of the Parties is liable for all direct damages resulting from any breach of confidentiality under the Contract. Each of the Parties is also liable for all indirect, special or consequential damages in respect of any unauthorized disclosure of the other Party's trade secrets (or trade secrets of a third party provided by one Party to another under the Contract) relating to information technology.
- (iv) The Contractor is liable for all direct damages relating to any encumbrance or claim relating to any portion of the Work for which Canada has made any payment. This does not apply to encumbrances or claims relating to intellectual property rights, which are addressed under (i)(A) above.

- (v) The Contractor is also liable for any other direct damages to Canada caused by the Contractor's performance or failure to perform the Contract that relate to:
  - (A) any breach of the warranty obligations under the Contract, up to the total amount paid by Canada (including any applicable taxes) for the goods and services affected by the breach of warranty; and
  - (B) Any other direct damages, including all identifiable direct costs to Canada associated with re-procuring the Work from another party if the Contract is terminated either in whole or in part for default, up to an aggregate maximum for this subparagraph (B) of the greater of .75 times the total estimated cost (meaning the dollar amount shown on the first page of the Contract in the cell titled "Total Estimated Cost" or shown on each call-up, purchase order or other document used to order goods or services under this instrument), or \$1,000,000.00.

In any case, the total liability of the Contractor under subparagraph (v) will not exceed the total estimated cost (as defined above) for the Contract or \$1,000,000.00, whichever is more.

(vi) If Canada's records or data are harmed as a result of the Contractor's negligence or willful act, the Contractor's only liability is, at the Contractor's own expense, to restore Canada's records and data using the most recent back-up kept by Canada. Canada is responsible for maintaining an adequate back-up of its records and data.

#### (c) Third Party Claims:

- (i) Regardless of whether a third party makes its claim against Canada or the Contractor, each Party agrees that it is liable for any damages that it causes to any third party in connection with the Contract as set out in a settlement agreement or as finally determined by a court of competent jurisdiction, where the court determines that the Parties are jointly and severally liable or that one Party is solely and directly liable to the third party. The amount of the liability will be the amount set out in the settlement agreement or determined by the court to have been the Party's portion of the damages to the third party. No settlement agreement is binding on a Party unless its authorized representative has approved the agreement in writing.
- (ii) If Canada is required, as a result of joint and several liability or joint and solidarily liable, to pay a third party in respect of damages caused by the Contractor, the Contractor must reimburse Canada by the amount finally determined by a court of competent jurisdiction to be the Contractor's portion of the damages to the third party. However, despite Subarticle (i), with respect to special, indirect, and consequential damages of third parties covered by this Section, the Contractor is only liable for reimbursing Canada for the Contractor's portion of those damages that Canada is required by a court to pay to a third party as a result of joint and several liability that relate to the infringement of a third party's intellectual property rights; physical injury of a third party, including death; damages affecting a third party's real or tangible personal property; liens or encumbrances on any portion of the Work; or breach of confidentiality.
- (iii) The Parties are only liable to one another for damages to third parties to the extent described in this Sub-article (c).

#### 19. Professional Services - General

(a) The Contractor must provide professional services on request as specified in this Contract. All resources provided by the Contractor must meet the qualifications described in the Contract (including those relating to previous experience, professional designation, education, language proficiency and security clearance) and must be competent to provide the required services by any delivery dates described in the Contract.

- (b) If the Contractor fails to deliver any deliverable (excluding delivery of a specific individual) or complete any task described in the Contract on time, in addition to any other rights or remedies available to Canada under the Contract or the law, Canada may notify the Contractor of the deficiency, in which case the Contractor must submit a written plan to the Project Authority within ten working days detailing the actions that the Contractor will undertake to remedy the deficiency. The Contractor must prepare and implement the plan at its own expense.
- (c) In General Conditions 2035, the Article titled "Replacement of Specific Individuals" is deleted and the following applies instead:

#### Replacement of Specific Individuals

- (i) If the Contractor is unable to provide the services of any specific individual identified in the Contract to perform the services, the Contractor must within five working days of having this knowledge, the individual's departure or failure to commence Work (or, if Canada has requested the replacement, within ten working days of Canada's notice of the requirement for a replacement) provide to the Contracting Authority:
  - the name, qualifications and experience of a proposed replacement immediately available for Work; and
  - (B) security information on the proposed replacement as specified by Canada, if applicable.

The replacement must have qualifications and experience that meet or exceed those obtained for the original resource.

- (ii) Subject to an Excusable Delay, where Canada becomes aware that a specific individual identified under the Contract to provide services has not been provided or is not performing, the Contracting Authority may elect to:
  - (A) exercise Canada's rights or remedies under the Contract or at law, including terminating the Contract in whole or in part for default under the Article titled "Default of the Contractor". or
  - (B) assess the information provided under (c) (i) above or, if it has not yet been provided, require the Contractor to propose a replacement to be rated by the Project Authority. The replacement must have qualifications and experience that are similar or exceed those obtained for the original resource and be acceptable to Canada. Upon assessment of the replacement, Canada may accept the replacement, exercise the rights in (ii) (A) above, or require another replacement in accordance with this sub-article (c).

Where an Excusable Delay applies, Canada may require (c) (ii) (B) above instead of terminating under the "Excusable Delay" Article. An Excusable Delay does not include resource unavailability due to allocation of the resource to another Contract or project (including those for the Crown) being performed by the Contractor or any of its affiliates.

- (iii) The Contractor must not, in any event, allow performance of the Work by unauthorized replacement persons. The Contracting Authority may order that an original or replacement resource stop performing the Work. In such a case, the Contractor must immediately comply with the order. The fact that the Contracting Authority does not order a resource to stop performing the Work does not relieve the Contractor from its responsibility to meet the requirements of the Contract.
- (iv) The obligations in this article apply despite any changes that Canada may have made to the Client's operating environment.

## 20. Safeguarding Electronic Media

(a) Before using them on Canada's equipment or sending them to Canada, the Contractor must use a regularly updated product to scan electronically all electronic media used to perform the Work

for computer viruses and other coding intended to cause malfunctions. The Contractor must notify Canada if any electronic media used for the Work are found to contain computer viruses or other coding intended to cause malfunctions.

(b) If magnetically recorded information or documentation is damaged or lost while in the Contractor's care or at any time before it is delivered to Canada in accordance with the Contract, including accidental erasure, the Contractor must immediately replace it at its own expense.

#### 21. Representations and Warranties

The Contractor made statements regarding its own and its proposed resources' experience and expertise in its bid that resulted in the award of the Contract and the issuance of TA's. The Contractor represents and warrants that all those statements are true and acknowledges that Canada relied on those statements in awarding the Contract and adding work to it through TA's. The Contractor also represents and warrants that it has, and all its resources and subcontractors that perform the Work have, and at all times during the Contract Period they will have and maintain, the skills, qualifications, expertise and experience necessary to perform and manage the Work in accordance with the Contract, and that the Contractor (and any resources or subcontractors it uses) has previously performed similar services for other customers.

#### 22. Access to Canada's Property and Facilities

Canada's property, facilities, equipment, documentation, and personnel are not automatically available to the Contractor. If the Contractor would like access to any of these, it is responsible for making a request to the Project Authority. Unless expressly stated in the Contract, Canada has no obligation to provide any of these to the Contractor. If Canada chooses, in its discretion, to make its property, facilities, equipment, documentation or personnel available to the Contractor to perform the Work, Canada may require an adjustment to the Basis of Payment and additional security requirements may apply.

#### 23. Government Property

Canada agrees to supply the Contractor with the items listed in Sections 9. Client Support and 12. Technical Environment of Annex A, Statement of Work (the "Government Property"). The section of the General Conditions entitled "Government Property" also applies to the use of the Government Property by the Contractor.

#### 24. Identification Protocol Responsibilities

The Contractor will be responsible for ensuring that each of its agents, representatives or subcontractors (hereinafter referred to as Contractor Representatives) complies with the following self-identification requirements:

- (a) Contractor Representatives who attend a Government of Canada meeting (whether internal or external to Canada's offices) must identify themselves as Contractor Representatives prior to the commencement of the meeting, to ensure that each meeting participant is aware of the fact that the individual is not an employee of the Government of Canada;
- (b) During the performance of any Work at a Government of Canada site, each Contractor Representative must be clearly identified at all times as being a Contractor Representative; and
- (c) If a Contractor Representative requires the use of the Government of Canada's e-mail system in the performance of the Work, then the individual must clearly identify him or herself as an agent or subcontractor of the Contractor in all electronic mail in the signature block as well as under "Properties." This identification protocol must also be used in all other correspondence, communication, and documentation.
- (d) If Canada determines that the Contractor is in breach of any obligation stated in this Article, upon written notice from Canada the Contractor must submit a written action plan describing corrective measures it will implement to eliminate the recurrence of the problem. The Contractor will have five working days to deliver the action plan to the Client and the Contracting Authority, and twenty working days to rectify the underlying problem.

(e) In addition to any other rights it has under the Contract, Canada may terminate the Contract for default if the corrective measures required of the Contractor described above are not met.

# ANNEX A STATEMENT OF WORK

(SEE ATTACHED HERETO)

# ANNEX B BASIS OF PAYMENT

## 1. Professional Services

In accordance with the Contract, the Contractor will be paid the following firm all-inclusive per diem rates for work performed pursuant to this Contract, Applicable Taxes extra.

## **Initial Contract Period:**

Initial Contract Period From January 30, 2017 to January 29 2018			
Resource Category	Level of Expertise	Firm Per Diem Rate	
Application/Software Architect - Specialty in IBM Integration Bus (IIB) – Enterprise Service Bus (ESB)	LEVEL 3		
Application/Software Architect - Specialty in IBM Business Process Management (BPM) Advanced	LEVEL 3		
Application/Software Architect - Specialty in IBM Operational Decision Manager (ODM) Standard and ODM Advanced (including the Event Management System (EMS))	LEVEL 3	***	
Programmer/Software Developer - Specialty in IBM Integration Bus (IIB) – Enterprise Service Bus (ESB)	LEVEL 3	*	
Programmer/Software Developer - Specialty in IBM Business Process Management (BPM) Advanced	LEVEL 3	***************************************	
Programmer/Software Developer - Specialty in IBM Operational Decision Manager (ODM) Standard and ODM Advanced (including the Event Management System (EMS))	LEVEL 3		
Test Coordinator - Specialty in Test coordination of one or many of the following Products: IBM MDM, IBM IIS DataStage and QualityStage, IBM ISII, IBM IIB-ESB, IBM GNM, IBM ODM Standard and Advanced	LEVEL 3		
Technology Architect - IBM Integration Bus (IIB) – Enterprise Service Bus (ESB) Configuration and Release Management	LEVEL 3	***************************************	

## **Option Periods:**

Option Period 1 From January 30, 2018 to January 29 2019			
Resource Category	Level of Expertise	Firm Per Diem Rate	
Application/Software Architect - Specialty in IBM Integration Bus (IIB) – Enterprise Service Bus (ESB)	LEVEL 3		
Application/Software Architect - Specialty in IBM Business Process Management (BPM) Advanced	LEVEL 3		
Application/Software Architect - Specialty in IBM Operational Decision Manager (ODM) Standard and ODM Advanced (including the Event Management System (EMS))	LEVEL 3		
Programmer/Software Developer - Specialty in IBM Integration Bus (IIB) – Enterprise Service Bus (ESB)	LEVEL 3		
Programmer/Software Developer - Specialty in IBM Business Process Management (BPM) Advanced	LEVEL 3	***************************************	
Programmer/Software Developer - Specialty in IBM Operational Decision Manager (ODM) Standard and ODM Advanced (including the Event Management System (EMS))	LEVEL 3		
Test Coordinator - Specialty in Test coordination of one or many of the following Products: IBM MDM, IBM IIS DataStage and QualityStage, IBM ISII, IBM IIB-ESB, IBM GNM, IBM ODM Standard and Advanced	LEVEL 3		
Technology Architect - IBM Integration Bus (IIB) – Enterprise Service Bus (ESB) Configuration and Release Management	LEVEL 3	***************************************	

Option Period 2 From January 30, 2019 to January 29 2020			
Resource Category	Level of Expertise	Firm Per Diem Rate	
Application/Software Architect - Specialty in IBM Integration Bus (IIB) – Enterprise Service Bus (ESB)	LEVEL 3		
Application/Software Architect - Specialty in IBM Business Process Management (BPM) Advanced	LEVEL 3		
Application/Software Architect - Specialty in IBM Operational Decision Manager (ODM) Standard and ODM Advanced (including the Event Management System (EMS))	LEVEL 3	100211002100000000000000000000000000000	
Programmer/Software Developer - Specialty in IBM Integration Bus (IIB) – Enterprise Service Bus (ESB)	LEVEL 3	***************************************	
Programmer/Software Developer - Specialty in IBM Business Process Management (BPM) Advanced	LEVEL 3		
Programmer/Software Developer - Specialty in IBM Operational Decision Manager (ODM) Standard and ODM Advanced (including the Event Management System (EMS))	LEVEL 3		
Test Coordinator - Specialty in Test coordination of one or many of the following Products: IBM MDM, IBM IIS DataStage and QualityStage, IBM ISII, IBM IIB-ESB, IBM GNM, IBM ODM Standard and Advanced	LEVEL 3		
Technology Architect - IBM Integration Bus (IIB) – Enterprise Service Bus (ESB) Configuration and Release Management	LEVEL 3	1000000	

Option Period 3 From January 30, 2020 to January 29 2021			
Resource Category	Level of Expertise	Firm Per Diem Rate	
Application/Software Architect - Specialty in IBM Integration Bus (IIB) – Enterprise Service Bus (ESB)	LEVEL 3		
Application/Software Architect - Specialty in IBM Business Process Management (BPM) Advanced	LEVEL 3	100000000000000000000000000000000000000	
Application/Software Architect - Specialty in IBM Operational Decision Manager (ODM) Standard and ODM Advanced (including the Event Management System (EMS))	LEVEL 3		
Programmer/Software Developer - Specialty in IBM Integration Bus (IIB) – Enterprise Service Bus (ESB)	LEVEL 3	***************************************	
Programmer/Software Developer - Specialty in IBM Business Process Management (BPM) Advanced	LEVEL 3	***************************************	
Programmer/Software Developer - Specialty in IBM Operational Decision Manager (ODM) Standard and ODM Advanced (including the Event Management System (EMS))	LEVEL 3	, , , , , , , , , , , , , , , , , , ,	
Test Coordinator - Specialty in Test coordination of one or many of the following Products: IBM MDM, IBM IIS DataStage and QualityStage, IBM ISII, IBM IIB-ESB, IBM GNM, IBM ODM Standard and Advanced	LEVEL 3		
Technology Architect - IBM Integration Bus (IIB) – Enterprise Service Bus (ESB) Configuration and Release Management	LEVEL 3	\$200 V	

Option Period 4 From January 30, 2021 to January 29 2022		
Resource Category	Level of Expertise	Firm Per Diem Rate
Application/Software Architect - Specialty in IBM Integration Bus (IIB) – Enterprise Service Bus (ESB)	LEVEL 3	
Application/Software Architect - Specialty in IBM Business Process Management (BPM) Advanced	LEVEL 3	***************************************
Application/Software Architect - Specialty in IBM Operational Decision Manager (ODM) Standard and ODM Advanced (including the Event Management System (EMS))	LEVEL 3	792572427242474747474747777
Programmer/Software Developer - Specialty in IBM Integration Bus (IIB) – Enterprise Service Bus (ESB)	LEVEL 3	***************************************
Programmer/Software Developer - Specialty in IBM Business Process Management (BPM) Advanced	LEVEL 3	
Programmer/Software Developer - Specialty in IBM Operational Decision Manager (ODM) Standard and ODM Advanced (including the Event Management System (EMS))	LEVEL 3	2.2
Test Coordinator - Specialty in Test coordination of one or many of the following Products: IBM MDM, IBM IIS DataStage and QualityStage, IBM ISII, IBM IIB-ESB, IBM GNM, IBM ODM Standard and Advanced	LEVEL 3	
Technology Architect - IBM Integration Bus (IIB) – Enterprise Service Bus (ESB) Configuration and Release Management	LEVEL 3	Nicht Control

Option Period 5 From January 30, 2022 to January 29 2023		
Resource Category	Level of Expertise	Firm Per Diem Rate
Application/Software Architect - Specialty in IBM Integration Bus (IIB) – Enterprise Service Bus (ESB)	LEVEL 3	
Application/Software Architect - Specialty in IBM Business Process Management (BPM) Advanced	LEVEL 3	
Application/Software Architect - Specialty in IBM Operational Decision Manager (ODM) Standard and ODM Advanced (including the Event Management System (EMS))	LEVEL 3	3000.000.000.000.000.000.000.000.000.00
Programmer/Software Developer - Specialty in IBM Integration Bus (IIB) – Enterprise Service Bus (ESB)	LEVEL 3	***************************************
Programmer/Software Developer - Specialty in IBM Business Process Management (BPM) Advanced	LEVEL 3	
Programmer/Software Developer - Specialty in IBM Operational Decision Manager (ODM) Standard and ODM Advanced (including the Event Management System (EMS))	LEVEL 3	
Test Coordinator - Specialty in Test coordination of one or many of the following Products: IBM MDM, IBM IIS DataStage and QualityStage, IBM ISII, IBM IIB-ESB, IBM GNM, IBM ODM Standard and Advanced	LEVEL 3	
Technology Architect - IBM Integration Bus (IIB) – Enterprise Service Bus (ESB) Configuration and Release Management	LEVEL 3	

# ANNEX C SECURITY REQUIREMENTS CHECK LIST

(SEE ATTACHED HERETO)

## **ANNEX D**

## **Non-Disclosure Agreement**

I,, recognize that in the course of my work as an employee or subcontractor of, I may be given access to information by or on behalf of Canada in connection with the Work, pursuant to Contract No.
on behalf of Canada in connection with the Work, pursuant to Contract No.  #
I agree that I will not reproduce copy, use, divulge, release or disclose, in whole or in part, in whatever way or form any information described above to any person other than a person employed by Canada on a need to know basis. I undertake to safeguard the same and take all necessary and appropriate measures, including those set out in any written or oral instructions issued by Canada, to prevent the disclosure of or access to such information in contravention of this agreement.
I also acknowledge that any information provided to the Contractor by or on behalf of Canada must be used solely for the purpose of the Contract and must remain the property of Canada or a third party, as the case may be.
I agree that the obligation of this agreement will survive the completion of the Contract No. #
Signature
Date Date

#### ASFC - Divulgation en vertu de la loi sur l'Accès à l'informatic

**Annex A - Statement of Work (SOW)** 

Acquisition of Professional Services for SOAPS-MDMS-ERASS

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#### 1. Introduction

The Canada Border Services Agency (CBSA) is undertaking an ambitious agenda of change in support of various key initiatives (e.g. Beyond the Border, Entry-Exit, Biometrics, Generic Passage Flow), and Border modernization efforts. The Information, Science and Technology Branch (ISTB) support these efforts with oversight and alignment of major capital projects and the associated information technology solutions. Traditional IT functions have been augmented with program directorates that drive business transformation efforts and alignment of business solutions in portfolios for Travelers, Commercial, Common and Corporate projects.

In order to advance the planning, development and implementation of the CBSA's transformation agenda, ISTB has implemented an enterprise approach to the management of its portfolio of systems, projects and services. The following key steps have been taken to implement this enterprise approach to portfolio management:

- The creation of ISTB Service Portfolio Directorates Corporate, Commercial, Traveler and Common Services;
- The implementation of a Service Life Cycle Management Framework (SLMF) to help align the
  provision of ISTB services with the needs of CBSA. The SLMF is used to integrate the methods,
  processes, roles and responsibilities within ISTB with CBSA's business strategy to deliver value.
  The SLMF establishes a baseline from which ISTB can plan, build, operate, manage and evolve
  services; and
- The alignment and implementation of the following frameworks: Project Management, Project Portfolio and Service Life Cycle Management.

As part of this transformation the Common Services Portfolio has been created with the mandate of leading key projects to deliver various new enterprise building bock capabilities and services for CBSA. These projects include Service Oriented Architecture Platform Services (SOAPS), Master Data Management Services (MDMS), and Enterprise Risk Assessment Support Services (ERASS). Together, they will provide enterprise back-end capabilities for Entry-Exit and other key CBSA initiatives.

## 2. Background

The Common Services Portfolio has a mandate to plan, lead and stand up, in multiple releases, key mission-critical, large-scale, high-volume foundational services to deliver increased horizontal capabilities and services for CBSA. The services to be implemented are Service Oriented Architecture Platform Services (SOAPS), Master Data Management Services (MDMS), and Enterprise Risk Assessment Support Services (ERASS).

The delivery of these foundational services will allow CBSA to increase its ability to meet its security obligations and provide both efficient and effective management of its resources in support of risk management and assessment activities.

#### 2.1 SOAPS

SOA will enable reusable, horizontal enterprise services providing modern, robust, and agile IT services. The CBSA SOA services will be realized by integrating a number of Commercial Off-the-Shelf (COTS) products, augmented by custom development for capabilities not readily available in the market.

The SOA platform services will be a cornerstone of CBSA's information technology systems to promote the development of horizontal services within the enterprise, they will enable re-use of common business function.

These platform services will be used by CBSA Lines of business (LOB) initiatives to develop and deploy IT-enabled business services. COTS products, ESB IBM Integrated Bus (IIB), IBM Business Process Manager (BPM), IBM Operational Decision Manager (ODM) Standard, and IBM Operational Decision Manager (ODM) Advanced will be used to enable and support the SOA platform services.

#### **2.2 MDMS**

MDM will become the authoritative system of record for CBSA's people and business tombstone data and will be critical in enabling a 360 degree view of people and businesses. After the MDM system is put in place, all systems at CBSA will have the ability to integrate with the MDM solution when requiring access to people and business tombstone data.

Stewards responsible for maintaining the MDM data quality will be put in place as part of the initiative and will align to the overall direction for data governance to be provided by the Enterprise Data Governance initiative.

An ingestion service based on IBM InfoSphere DataStage and QualityStage COTS, under the IBM InfoSphere Information server (IIS) product suite, will be used to feed required data (initial loads and ongoing feeds) from various CBSA data sources into relevant COTS for search purposes.

The MDMS requires the use of the following architecture components:

- The Master Data Management (MDM)component will provide services to maintain and search party information (businesses and people) as well as a user interface to govern the mastered data (data stewardship interface).
- The Data Preparation and Loading Service (DPLS) component will provide services to extract, cleanse, standardize, transform and ingest data during initial load as well as ongoing operational processes.

#### 2.3 ERASS

Enterprise Risk Assessment Support Service (ERASS) will build upon the SOA platform to deliver the Entity Resolution and Search Service providing enterprise services in support of the CBSA risk assessment landscape.

Its primary services relate to identity resolution, fuzzy search, and federated search of information related to a specified person across multiple LOB systems. ERASS is dependent on MDMS and SOAPS as a result of service provisioning and utilization amongst them.

ERASS will leverage MDMS for entity resolution, data preparation, and data loading services. ERASS will also require the ESB component within SOAPS to host the public interface and processes that comprise the services offered by ERASS.

Additionally, ERASS could make use of Informatica SSA Name 3 as a component of the Fuzzy Search Service. Relationship resolution is an additional service offered by ERASS which will provide obvious and non-obvious relationship discovery capabilities for ingested entities. The Relationship Resolution Service (RRS) will require IBM's InfoSphere Identity Insight (ISII) COTS software product as an architecture component.

### 2.4 Travellers - Entry-Exit

Entry-Exit will be the initial on-boarder to the components included in the SOA platform services. Entry-Exit is responsible for the development of a key Government of Canada commitment under the Canada US Border Action plan, to create a Canadian entry and exit information system which will, ultimately, provide a valuable new source of information with potential benefits for security, law enforcement and program integrity. The key deliverables of the Entry-Exit Project rely on the ability to identify individuals and recognize if they are known or unknown to CBSA.

The delivery of the Entry-Exit project is dependent on the components found in the SOA platform services. Entry-Exit will leverage the SOA and MDM components to deliver the following:

- Calculating duration of complete Entry to Exit Events.
- Calculating duration of complete Exit to Entry Events
- Calculating duration of open Exit Events.
- Calculating duration of open Entry Events.
- Calculating complete events over specified periods of time.
- Reconciliation of data from multiple sources to create an Entry or Exit Event.
- Determination of mode of transportation.
- Enhanced people name searching and matching support;
- Identity resolution for entities that exist in multiple databases;
- Relationship resolution for entities across multiple databases, and;
- Alerting.

An ingestion service based on IBM InfoSphere DataStage and QualityStage COTS, under the IIS product suite, will be used to feed required data (initial loads and ongoing feeds) from various CBSA data sources into relevant COTS for search purposes.

### 3. Objective

The specific objective of this procurement is to acquire the professional services on an as required basis to support the work of CBSA in the establishment and integration of the above mentioned key mission-critical foundational services, i.e. SOAPS, MDMS, and ERASS.

It is expected that the Contractor's resources will be used across CBSA. The resources will be involved in the architecture and design, development, configuration, testing, optimization, integration with other related components and systems, deployment, and support and maintenance of the above mentioned foundational services in a complex technical environment using the Crown-owned suite of commercial off-the-shelf (COTS) products.

### 4. Scope

The scope of work consists of the acquisition of professional services to provide guidance, expertise, deliverables, and assistance to perform the development, deployment, configuration, integration, and post-implementation maintenance support of the architecture components required for SOAPS, MDMS, and ERASS.

On an as and when requested basis, through the issuance of Task Authorizations (TAs), the Contractor must perform the tasks as described in section 7 below.

To realize this delivery within the time constraints, CBSA foresees a requirement for the assistance of professional services, starting from October 2016 until the end of March 2020, in the following domains: (1) architecture, (2) software development and configuration, (3) system analysis, (4) testing services, (5) business analysis, (6) IT Security, and (7) systems-solutions integration.

CBSA plans to iterate the delivery of the above-mentioned services through phases identified in section 5 below: (1) Planning, (2) Building, (3) Verification, (4) Production, (5) On-Boarding, (6) Maintenance. Each phase will include embedded controls and checkpoints and will require the work of professional services for which categories and tasks are identified below in sections 6 and 7. The resources may be required to perform tasks in any or all of the phases. These services need to be delivered in accordance with CBSA approved methodologies and frameworks.

#### 4.1 Out of Scope - End-User Support

The Contractor will not be required to provide End-User Support following post-implementation of the architecture components required for SOAPS, MDMS, and ERASS.

#### 5. Phases

The work delivery of the above-mentioned services will need to be performed iteratively through phases. Each phase has a set of expected deliverables. Note that there may be some overlap in the timing of the phases such that a later phase may begin before the prior phase has completed. Deliverables may include but are not limited to the following:

- 1. Planning Phase System Requirements Specifications (SRS), Architecture and Design Specification (ADS), System Use Cases (SUC), System Requirements Traceability Matrix (S-RTM), high level architecture, preliminary User Interface (UI) screens, and master test plan;
- 2. Building Phase System components and integration, unit, integration and component test plan, development release notes, ADS, S-RTM, Test to System Requirements Traceability Matrix (TS-RTM), implementation schedule;
- 3. Verification Phase Master test plan (fully defined), functional acceptance plan, verification test plan, verification test report, release notes, defects, build book, component and integration documentation, screen captures and hierarchy, ADS, TS-RTM, production implementation schedule;
- 4. Production Phase SRS, comprehensive traceability matrix, master test plan, test reports, ADS, operations release guide, release notes, Service Level Agreements (SLAs), build book;
- 5. On-boarding Phase client engagement plan, technical qualification and assessment, client readiness and development, integration endorsement and testing, production readiness assessment, implementation schedule, SRS, ADS, SUC;
- Maintenance Phase Maintenance system documentation, maintenance component and integration documentation, maintenance performance verification testing, operations services documentation, monitoring and reporting requirements.

## 6. Resource Categories

The table below identifies the categories of expert resources that CBSA anticipates requiring on an as and when requested basis.

TBIPS Category	Level of	Area of expertise
	Expertise	
Dung was an and Confirmed	3	Specialty in IBM Integration Bus (IIB) – Enterprise Service Bus (ESB)
Programmer/Software Developer	3	Specialty in IBM Business Process Management (BPM) Advanced
Developer	3	Specialty in IBM Operational Decision Manager (ODM) Standard and Advanced (including the Event Management System (EMS))

Application/Software	3	Specialty in IBM Integration Bus (IIB) – Enterprise Service Bus (ESB)
Architect	3	Specialty in IBM Business Process Management (BPM) Advanced
Architect	3	Specialty in IBM Operational Decision Manager (ODM) Standard
		and Advanced (including the Event Management System (EMS))
	3	Specialty in Test coordination of one or many of the following
Test Coordinator		Products: IBM MDM, IBM IIS DataStage and QualityStage, IBM
Test Coordinator		ISII, IBM IIB-ESB, IBM GNM, IBM Operational Decision Manager
		(ODM) Standard and Advanced
Talaharahara Azabitan	3	IBM Integration Bus (IIB) – Enterprise Service Bus (ESB)
Technology Architect		Configuration and Release Management

### 7. Tasks and Activities

This section describes the categories of expert resources and the basic responsibilities for each that CBSA anticipates will be required to build, integrate, test, and deploy a large-scale integrated SOA, MDM, and ERASS foundation. The Contractor may be required to perform the tasks and produce the deliverables identified, but not limited to, the lists provided below. Each individual Task Authorization (TA) will detail the specific tasks and deliverables to be completed.

### 7.1 Programmer/Software Developer

The resources identified may be required to participate in any or all phases identified in the Scope section above.

#### 7.1.1 Specialty in IBM Integration Bus (IIB) – Enterprise Service Bus (ESB)

Tasks (may include but not limited to the following) -

- Provide CBSA with expert technical expertise and guidance on developing rules for the IBM SOA
   Suite Integration Bus platform:
  - Integration of IBM IIB with other IBM SOA suite components (BPM, ODM Standard and Advanced) as well as current and future CBSA information systems;
  - Implementation of Integration solutions using IBM IIB including design, development, testing and deployment of Integration Applications, integration libraries and message flows; and
  - All aspects of testing of solutions developed for the IBM Integration Bus including functional, integration and performance testing.
- Develop best practices and development guidelines;
- Perform performance optimization of Message Flow solutions for IBM Integration Bus;
- Provide best practices and guidelines for component, integration, and performance testing of integration solutions implemented using the IBM IIB;
- Test planning for unit and component testing; and
- Development of developer training material.

Deliverables (may include but not limited to the following) -

- Deployable Integration Applications and libraries developed to CBSA Standards and using CBSA development infrastructure;
- Detailed Design documents for all customized code and configurations for IBM IIB ESB related solution components;
- Best practices and guidelines documentation;
- Test Plans;
- IIB-related system use cases and system requirements documents; and
- Developer training material documentation.

#### 7.1.2 Specialty in IBM Business Process Management (BPM) Advanced

Tasks (may include but not limited to the following) -

- Provide CBSA with expert technical expertise and guidance on the following topics:
  - Integration of IBM BPM with other IBM SOA Suite components (IIB, ODM Standard and Advanced) as well as current and future CBSA information systems;
  - o BPM performance optimization
  - Automated business process execution using IBM BPM including process analysis, process authoring, process application development, testing and deployment;
  - Performance optimization and troubleshooting;
- Provide best practices and development guidelines;
- Design and development of business process orchestrations targeted at the IBM SOA suite toolsets using the IBM SOA development toolsets; and
- Development of developer training material.

Deliverables (may include but not limited to the following) -

- Deployable business process applications developed to CBSA standards and using CBSA development infrastructure;
- Detailed design documents conforming to CBSA SLMF template requirements; more specifically the required ADS section for business process applications;
- Planning for and analysis of results from unit, component and other related test plans for business process applications;
- Documented guidelines and best practices related to business process development;
- BPM-related system use cases and system requirements; and
- Developer training material documentation.

## 7.1.3 Specialty in IBM Operational Decision Manager (ODM) standard and ODM Advanced (including the Event Management System (EMS))

Tasks (may include but not limited to the following) -

- Provide CBSA with expert technical expertise and guidance on the following topics:
  - Integration of ODM and ODM Advanced with other IBM SOA suite components (IIB and BPM) as well as current and future CBSA information systems;
  - Automated decision making using ODM Standard including rule development, rule flow development, rule application testing and deployment;
  - Automated triggering of business processes and notifications based on event pattern matching using ODM Advanced including event pattern design and development, event application testing and deployment;
  - o Performance optimization and troubleshooting; and
  - o Provide best practices and development guidelines.
- Planning for and analysis of results from unit, component and other related test plans for business rule applications;
- Assist CBSA with the design and development of:
  - Business Object Models (BOM); and
  - eXecution Object Models (XOM).
- Development of developer training material.

Deliverables (may include but not limited to the following) -

- Develop deployable business rule applications (including BOMs and XOMs as required)
   developed to CBSA standards using CBSA development infrastructure and processes.
- Detailed design documents conforming to CBSA SLMF template requirements (specifically the ADS Part 4) for business rule applications;
- Test plans;
- Developer training material documentation;
- Documented guidelines and best practices related to Business and Event Rule Development; and
- BRMS-related System Use Cases and system requirements.

#### 7.2 Application/Software Architect

#### 7.2.1 Specialty in IBM Integration Bus (IIB) – Enterprise Service Bus (ESB)

Tasks (may include but not limited to the following) –

- Provide CBSA with expert technical expertise and guidance on the following topics:
  - Architecture that includes integration of IBM IIB with other IBM SOA suite components (BPM, ODM Standard and Advanced) as well as with current and future CBSA information systems;
  - Infrastructure and application architecture supporting high availability and disaster recovery;
  - Architecture best practices and guidelines;
  - IIB-ESB security frameworks and integration with CBSA security policy and identity stores; and

 Guidelines, standards and best practices for when to implement business processes on the IBM Integration Bus versus the IBM Business Process Management System.

Deliverables (may include but not limited to the following) -

- Best practices, guidelines, standards and procedure documentation for items listed in the task list using CBSA approved templates; and
- Architecture & Design documentation using CBSA approved templates.

#### 7.2.2 Specialty in IBM Business Process Management (BPM) Advanced

Tasks (may include but not limited to the following) -

- Provide CBSA with expert technical expertise and guidance on the following topics:
  - Architecture that includes integration of IBM BPM with other IBM SOA Suite components (IIB, ODM Standard and Advanced) as well as current and future CBSA information systems;
  - Infrastructure and application architecture supporting high availability and disaster recovery;
  - o Architecture best practices and guidelines;
  - BPM security frameworks and integration with CBSA security policy and identity stores;
     and
  - Guidelines, standards and best practices for when to implement business processes on the IBM Integration Bus versus the IBM Business Process Management (BPM) system.

Deliverables (may include but not limited to the following) -

- Best Practices, Guidelines, standards and procedure documentation for items listed in the task list using CBSA Approved templates; and
- Architecture & Design Documentation using CBSA approved templates.

## 7.2.3 Specialty in IBM Operational Decision Manager (ODM) standard and ODM Advanced (including the Event Management System (EMS))

Tasks (may include but not limited to the following) -

- Provide CBSA with expert technical expertise and guidance on the following topics:
  - Architecture that includes integration of IBM ODM and ODM Advanced with other IBM SOA Suite components (IIB, BPM) as well as current and future CBSA information systems;
  - Infrastructure and application architecture supporting high availability and disaster recovery;
  - Architecture best practices and guidelines; and
  - ODM security frameworks and integration with CBSA security policy and identity stores

Deliverables (may include but not limited to the following) -

- Best Practices, Guidelines, standards and procedure documentation for items listed in the task list using CBSA Approved templates; and
- Architecture & Design Documentation using CBSA approved templates.

#### 7.3 Test Coordinator

The test coordinator must plan, manage, schedule, coordinate, and control testing activities for multiple integrated systems and products specifically the ones part of the IBM SOA stack. Product specific knowledge is also required as identified below. The resources identified may be required to participate in any or all phases identified in the Scope section above.

## 7.3.1 Specialty in Test coordination of one or many of the following Products: IBM MDM, IBM BPM, IBM IIS DataStage and QualityStage, IBM IIB-ESB, IBM ODM Standard and Advanced

Tasks (may include but not limited to the following) -

- Provide expertise in all aspects of testing applications developed on IBM SOA stack, including testing of one or many of the following IBM products: ESB flows in IIB, business process automation on IBM BPM, MDM, ISII, IIS, rules and event management in ODM Standard and Advanced;
- Provide advice, guidance for the development of a test strategy, test plans, test scenarios, test
  cases, unit tests including recommendations for the selection of automated testing tools, and
  identification of test environment and resources required for testing;
- Develop, prepare and deliver the following documentation: test strategy, test plans, test scenarios, test cases, and test reports templates
- Plan, organize, schedule, and coordinate testing efforts for large enterprise systems, including:
  - Integration testing with CBSA applications and other components including for example: ESB-IIB, ODM Standard, ODM Advanced, MDM, IIS, BPM Advanced, MQ, and HTTP and HTTPS;
  - User acceptance testing (e.g. stress tests);
  - Verification testing of the test environment and tools
  - Ensure alignment of test plan with System Requirements Traceability Matrix (S-RTM)
  - Detailed time and resource estimates required for testing
- Report on test execution and cycles by ensuring completion of test Reports and reporting of bugs found during testing in the bug management system; and
- Complete the test traceability matrix;

Deliverables (may include but not limited to the following) –

- Test Strategy, test plans, test scenarios, test cases;
- Test schedules, test reports, test logs, test traceability matrix;
- Test checklists;

- Test scripts; and
- Verification implementation plan and schedule.

### 7.4 Technology Architect

The resources identified may be required to participate in any or all phases identified in the Scope section above.

## 7.4.1 IBM Integration Bus (IIB) – Enterprise Service Bus (ESB) Configuration and Release Management

Tasks (may include but not limited to the following) -

- Work with Software Configuration Management (SCM) team to provide technical solutions to support SCM processes;
- Conduct consultations with stakeholders aimed at firming up and documenting the required infrastructure design integrating IBM IIB and IBM ESB with cross-platform underpinning technologies;
- Implement and maintain SCM tools pertaining to IBM SOA products (IIB, BPM Advanced, ODM, ODM Advanced);
- Perform defect troubleshooting and root-cause analysis;
- Develop, implement and maintain automated build and deployment scripts;
- Install and configure applications in development and QA environments;
- Provide technical solutions for general SCM tasks such as change control, status accounting and auditing;
- Integration with ESB-IIB, MDM, ODM, ODM Advanced, BPM, ISII, MQ, HTTP, and HTTPS; and
- Provide training and support to end users of SCM tools.

Deliverables (may include but not limited to the following) -

- Installation and Configuration recommendations for the deployment of the IBM IIB ESB and the customized code and configuration solution components for CBSA related infrastructure;
- Installation and configuration recommendations for the integration of ESB-IIB, MDM, ODM, ODM Advanced, and BPM;
- · Capacity management plan and strategy;
- Availability, fail-over and recoverability strategies;
- Test cases, test plans and scripts as required;
- Operations guide(s) as required; and
- Other written deployment and implementation strategies as required.

#### 8. Constraints

Professional resources procured through this vehicle will be expected to adhere to the CBSA operating model, following CBSA standards and processes to accomplish their project work. The Contractor's resources will be required to abide by architectural design documents which have been developed and approved prior to the commencement of their services such as Release Proposal, Architecture Design Specification, and System Use Cases. CBSA will provide copies of all templates and policies applicable after contract award.

The professional services resources will be integrated into and collaborating with various CBSA responsibility centers working alongside CBSA employees and other professional contracted resources of varying disciplinary backgrounds.

Knowledge transfer, application code developed for CBSA, and documentation as necessary is expected from all professional resources hired through this vehicle and is required to ensure that CBSA personnel have the knowledge and mechanisms to independently support and sustain the infrastructure deployed through this contract.

Both software and hardware specifications identified in Section 12.2 and 12.3 respectively are provided for information purposes only and may be subject to change. Additional hardware and software components will be included in the applicable Task Authorizations.

Each Task Authorization will identify any additional constraints if applicable.

## 9. Client Support

CBSA will ensure that the Contractor's resource is provided with:

- Security access to the building; and
- Access to relevant project documentation; and
- Workspace and CBSA equipment.

### 10. Work Location

The specific work location will be identified in each Task Authorization. Unless specified otherwise, the work location will be a CBSA office in the National Capital Region (NCR).

## 11. Language Requirement

The resources must be able to perform the work and provide any deliverables in English. Each Task Authorization will identify the specific language requirements.

### 12. Technical Environment

The Canada Revenue Agency (CRA) and Shared Services Canada (SSC) currently provide infrastructure services to CBSA.

#### 12.1 CBSA High-Availability (HA) Environment

Critical CBSA business applications require 24-7 availability and dual data center failover. As such, the computing environment including both infrastructure and software applications must be well integrated in ensuring critical CBSA systems are available at all time. This requires an application ability to mask both scheduled and un-scheduled outages. If required, CBSA standard Relational Database Management Systems (RDBMS) are available to store, report and retrieve enterprise authorized data on the CBSA enterprise platforms as defined by the CBSA technical platform document.

The integration of software applications in a highly available environment, paramount to support the model for the SOAPS, may include, but is not limited to, the following technologies:

- Clustered or redundant Web technologies: WebSphere, and Apache.
- Clustered or redundant DBRMS: DB2 with PureScale.
- Redundant LDAP, SiteMinder, and Identity Manager.
- Load balancer technologies using Apache servers and network appliances.
- Cognos SPSS
- SSA-Name3

#### 12.2 Software Components

CBSA owns all licenses to use the IBM products found in the table below:

Architecture Component	COTS	Version and Platform	DB and Platform	Description
Master Data Management (MDM)	IBM Master Data Management (MDM)	11.5 on Linux	DB2 on Linux	MDM provides maintenance and search capabilities for mastered businesses and people
Global Name Management (GNM)	IBM Global Name Management (GNM)	5.0 or above	N.A.	Name structure recognition with cultural backgrounds.
Data Preparation and Loading Service (DPLS)	IBM DataStage (DS) and QualityStage (QS)	IIS 11.5	DB2 on Linux	DS and QS extract data from data sources, cleanses, standardizes and loads it into the target database
Business Process Management (BPM)	IBM Business Process Management (BPM) Advanced	8.5.6 or above on Linux	DB2 on Linux	BPM provides business process automation.

Enterprise Service Bus (ESB)	IBM IIB	10 or above	DB2 on Linux	IBM Integration Bus connects applications together. It routes, transforms, and enriches messages from one location to any other location.
Business Rules Management Service (BRMS) and Event Management Service (EMS)	IBM ODM Advanced  IBM ODM Standard	8.7 or above	DB2 on Linux	ODM manages the business decision logic that is used by operational systems
Relationship Resolution Service (RRS)	IBM InfoSphere Identity Insight (ISII)	8.1.0 or above	DB2 on Linux	IBM InfoSphere Identity Insight resolves inconsistent, ambiguous identity records into comprehensive entities across multiple data sets
IBM SOA Integrated Development tools	IBM integration Designer, IBM Integration Explorer, IBM Business Process Designer, IBM ODM Rule Designer, IBM ODM Decision Server Event Designer	Various	DB2 on Linux	Set of tool to support the development and implementation of an integrated SOA, MDM, and ERASS foundation.

## 12.3 Hardware specification

The following table provides the hardware specifications in anticipation of the integrated SOA, MDM, and ERASS foundation implementation and delivery:

Component	Hardware	Specifications	Units
	Server specification	Xeon ES-2650 2x8 with 70 PVU score	
	C = == -=	Blade (Without VM)	36
	Servers	Blade (With VM)	30
MDM	Chassis		6
		Primary Disk capacity (Gb)	15862.50 (gb)
	SAN Storage	Mirrored capacity (Gb)	15862.50 (gb)
		SAN ports	
604	Servers	Blade 32 cores	8.5625
SOA	Chassis		4

## Appendix A - Non-Functional Requirements

### Volumetric – expected peak number of transactions per second

The following table illustrates the expected volumes (peak number of transactions per second) that are associated with the functioning services:

Component		Year				
	Service	2016	2017	2018	2019	2020
SOA	ESB	36.54	76.37	77.89	79.45	81.04
	BPM	19.21	19.60	19.99	20.39	20.80
	BRMS	27.35	66.99	68.33	69.70	71.09
	EMS	0.42	0.81	0.83	0.85	0.86
ERASS	ERSS	35.76	36.52	37.30	38.10	38.92

#### Volumetric - Volumes

Component	COTS	Demand Unit	Release 1	Release 2
NADNA	IDAA AADAA	Created businesses during initial load	6,000,000	N.A.
MDM	IBM MDM	Peak transactions per second	27	49
	IBM DataStage	Peak transactions per second	27	49
DPLS	IBM QualityStage or AVI	Transactions per second	27	49

#### Volumetric - ID resolution and reconciliation RP

Reconciliation and identity resolution is tightly aligned with Master Data Management (MDM) services for initial load, and coupled with query functionality for ongoing operations.

- Created people during initial load 63,000,000
- Created new people in 5 years after release 50,000,000

#### **Availability**

- The SOA enablement solution system must be highly available for 24-7 service with planned outages of 2 hours per month or 99.9+% operational ability.
- ERASS must be highly available for 24-7 service with 99.5% operational ability.
- MDM must be available 24 hours per day, 7 days per week, and 365 days per year.

## Appendix B – Acronyms

Acronym	Description
ADS	Architecture and Design Specification
BI	Business Intelligence
BPMN	Business Process Modeling Notation
BUC	Business Use Cases
CBSA	Canada Border Services Agency
COTS	Custom Off The Shelf
CRA	Canada Revenue Agency
DPLS	Data Preparation and Loading Service
EDW	Enterprise Data Warehouse
EFSS	Entity Fuzzy Search Service
ERASS	Enterprise Risk Assessment Support Services
ERSS	Entity Resolution and Search Service
ESB	Enterprise Service Bus
ETL	Extract, Transform, and Load
GNM	Global Name Management
GoC	Government of Canada
GC SOA	Government of Canada Service Oriented Architecture
НА	High Availability
IIB	IBM Integration Bus
IIS	InfoSphere Information Server
ISII	InfoSphere Identity Insight
ISTB	Information, Science and Technology Branch
KPI	Key Performance Indicator
LDAP	Lightweight Directory Access Protocol
LOB	Line of Business
MDM	Master Data Management
MDMS	Master Data Management Services
NCR	National Capital Region
ODM	Operational Decision Management
рМЕ	probabilistic Matching Engine
RDBMS	Relational Database Management System
REST	Representational State Transfer
ROI	Return on Investment
RP	Release Proposal
RRS	Relationship Resolution Service
SAN	Storage Area Network
SCM	Software Configuration Management
SLA	Service Level Agreement
SME	Subject Matter Expert
SOA	Service Oriented Architecture
SOAP	Simple Object Access Protocol
SOAPS	Service Oriented Architecture Platform Services
SRS	System requirements specification

S-RTM	System Requirements Traceability Matrix
SUC	System Use Cases
SSC	Shared Services Canada
TA	Task Authorization
TS-RTM	Test to System Requirements Traceability Matrix
UML	Unified Modeling Language

## Appendix C – Glossary

Acronym or Term	Description
ADS	An Architecture and Design Specification (ADS) document contains architecture and design information. The Architecture definition is contained in Parts 1 and 2; and the Design is captured in Parts 3 and 4.
врМ	Business process management (BPM) is a discipline that uses various methods to discover, model, analyze, measure, improve, and optimize business processes. A business process coordinates the behavior of people, systems, information, and things to produce business outcomes in support of a business strategy.
Deployment	Deployment services support the implementation and rollout of new applications or infrastructure. Activities may include hardware or software procurement, configuration, tuning, staging, installation and interoperability testing.
ETL	<ul> <li>ETL is short for extract, transform, and load, three database functions that are combined into one tool to pull data out of one database and place it into another database.</li> <li>Extract is the process of reading data from a database.</li> <li>Transform is the process of converting the extracted data from its previous form into the form it needs to be in so that it can be placed into another database. Transformation occurs by using rules or lookup tables or by combining the data with other data. Load is the process of writing the data into the target database.</li> </ul>
Implementation	A term used to designate the phases of the system lifecycle that are responsible for the delivery of an information system. It includes the initiation, development and acquisition, and integration and installation phases of the system lifecycle, but excludes the operations and maintenance phase and the disposal phase.
Master Data Management	<ul> <li>Master data management (MDM) of product data solutions are software products that:</li> <li>Support the global identification, linking and synchronization of product information across</li> <li>heterogeneous data sources through semantic reconciliation of master data</li> <li>Create and manage a central, persisted system of record or index of record for master data</li> <li>Enable delivery of a single product view to all stakeholders, in support of various business benefits</li> <li>Support ongoing master data stewardship and governance requirements through workflow-based</li> <li>monitoring and corrective action techniques</li> </ul>
Project implementation	Project implementation or execution is directing, managing, performing and accomplishing the project work, providing the deliverables, and providing work performance information.
Relationship analytical tool SOA	A system that provides services to analyze identities and their relationship for the purpose of fraud detection and risk assessment.  SOA is an approach for developing enterprise information systems solutions based on services. SOA is an industry best practice, which promotes open architecture. SOA aims to align information system services with business processes and data to enable re-use of

	business level functions. SOA is a foundation architecture that will influence systems
	development across the Agency's line of business portfolios.
GC SOA	The GC Service Oriented Architecture (GC SOA) is a comprehensive reference model that
	guides the use and adoption of Service Oriented Architectures (SOA) across the
	Government of Canada.
System	It ensures that the various segments and elements of the total system can interface with
integration	each other and with the external environment. [Thayer & Thayer European Perspective
·	1993]

## Appendix D - Tasking Assessment Procedure

- Where a requirement for a specific task is identified, a draft Task Authorization Form (TA Form) as attached at Appendix E to Annex A will be provided to the Contractor in accordance with the allocation methodology stated in the Contract Article titled "Allocation of Task Authorizations". Once a draft TA Form is received, the Contractor must submit to the Technical Authority a quotation of rates to supply the requested Resource Categories based on the information identified in the TA Form. The quotation must be signed and submitted to Canada within the time for response identified in the TA Form. The Contractor will be given a minimum of 3 working days turnaround time to submit a quotation.
- 2. For each proposed resource the Contractor must supply a résumé, the requested security clearance information and must complete the Response Tables at Appendix F of Annex A applicable to the Resource Categories identified in the draft TA. The same individual must not be proposed for more than one Resource Category. The résumés must demonstrate that each proposed individual meets the qualification requirements described (including any educational requirements, work experience requirements, and professional designation or membership requirements). With respect to the proposed resources:
  - (i) Proposed resources may be employees of the Contractor or employees of a subcontractor, or these individuals may be independent contractors to whom the Contractor would subcontract a portion of the Work. (Refer to Appendix G to Annex A, Certifications).
  - (ii) For educational requirements for a particular degree, designation or certificate, Canada will only consider educational programmes that were successfully completed by the resource before the date the draft TA was first issued to the Contractor.
  - (iii) For requirements relating to professional designation or membership, the resource must have the required designation or membership by the time of draft TA issuance and must continue, where applicable, to be a member in good standing of the profession or membership throughout the assessment period and Contract Period. Where the designation or membership must be demonstrated through a certification, diploma or degree, such document must be current, valid and issued by the entity specified in this Contract or if the entity is not specified, the issuer must have been an accredited or otherwise recognized body, institution or entity at the time the document was issued.
  - (iv) For work experience, Canada will not consider experience gained as part of an educational programme, except for experience gained through a formal co-operative programme at a post-secondary institution.
  - (v) For any requirements that specify a particular time period (e.g., 2 years) of work experience, Canada will disregard any information about experience if the résumé does not include the relevant dates (month and year) for the experience claimed (i.e., the start date and end date). Canada will evaluate only the duration that the resource actually worked on a project or projects (from his or her start date to end date), instead of the overall start and end date of a project or a combination of projects in which a resource has participated.
  - (vi) A résumé must not simply indicate the title of the individual's position, but must demonstrate that the resource has the required work experience by explaining the responsibilities and work performed by the individual while in that position. Only listing experience without providing any supporting data to describe responsibilities, duties and relevance to the requirement, or reusing the same wording as the TA Form, will not be considered "demonstrated" for the purposes of the assessment. The Contractor should provide complete details as to where, when, month and year, and how, through which activities or responsibilities, the stated qualifications and experience were obtained. In situations in which a proposed resource worked at the same time on more than one

project, the duration of any overlapping time period will be counted only once toward any requirements that relate to the individual's length of experience.

- 3. The qualifications and experience of the proposed resources will be assessed against the requirements set out in Appendix F to Annex A to determine each proposed resource's compliance with the mandatory and rated criteria. Canada may request proof of successful completion of formal training, as well as reference information. Canada may conduct reference checks to verify the accuracy of the information provided. If reference checks are done, they will be conducted in writing by e-mail (unless the contact at the reference is only available by telephone). Canada will not assess any points or consider a mandatory criterion met unless the response is received within 5 working days. On the third working day after sending out the emails, if Canada has not received a response. Canada will notify the Contractor by e-mail, to allow the Contractor to contact its reference directly to ensure that it responds to Canada within 5 working days. Wherever information provided by a reference differs from the information supplied by the Contractor, the information supplied by the reference will be the information assessed. Points will not be allocated or a mandatory criteria considered as met if the reference customer is not a customer of the Contractor itself (for example, the customer cannot be the customer of an affiliate of the Contractor). Nor will points be allocated or a mandatory criteria considered as met if the customer is itself an affiliate or other entity that does not deal at arm's length with the Contractor. Crown references will be accepted.
- 4. During the assessment of the resources proposed, should the references for two or more resources required under that TA either be unavailable or fail to substantiate the required qualifications of the proposed resources to perform the required services, the Contracting Authority may find the quotation to be non-responsive.
- Only quotations that meet all of the mandatory criteria will be considered for assessment of the point rated criteria. Each resource proposed must attain the required minimum score for the point rated criteria for the applicable Resource Category. If the minimum score for any proposed resource is less than what is required, the Contractor's quotation will be found to be non-responsive.
- 6. Once the quotation has been accepted by the Technical Authority, the TA Form will be signed by Canada and provided to the Contractor for signature. The TA Form must be appropriately signed by Canada prior to commencement of any work. The Contractor must not commence work until a validly issued TA Form (the Task Authorization) has been received, and any work performed in its absence is done at the Contractor's own risk.

## Appendix E – Task Authorization Form

(SEE ATTACHED HERETO)

Appendix F – Resources Assessment Criteria and Response Table

(SEE ATTACHED HERETO)

## Appendix G – Certifications at the TA Stage

The following Certifications are to be used, as applicable. If they apply, they must be signed and attached to the Contractor's quotation when it is submitted to Canada.

<ol> <li>CERTIFICATION OF EDUCATION AND EXF</li> </ol>	PERIENCE
The Contractor certifies that all the information provid proposed for completing the subject work, particularly achievements, experience and work history, has been Furthermore, the Contractor warrants that every indivise capable of performing the Work described in the Ta	/ the information pertaining to education, n verified by the Contractor to be true and accurate. ridual proposed by the Contractor for the requirement
Print name of authorized individual & sign above	 Date
2. CERTIFICATION OF AVAILABILITY OF PER	RSONNEL
The Contractor certifies that, should it be authorized to the persons proposed in the quotation will be available reasonable time from the date of issuance of the validathe TA Form, and will remain available to perform the	le to commence performance of the work within a d Task Authorization, or within the time specified in
Print name of authorized individual & sign above	Date
3. CERTIFICATION OF STATUS OF PERSON	NEL
If the Contractor has proposed any individual who is a certifies that it has permission from that individual to a be performed under this TA and to submit his or her a Period the Contractor must, upon request from the Cosigned by the individual, of the permission that was gallure to comply with the request may result in a def General Conditions.	propose his or her services in relation to the Work to résumé to Canada. At any time during the Contract contracting Authority, provide the written confirmation, iven to the Contractor of his or her availability.
Print name of authorized individual & sign above	 Date
4. CERTIFICATION OF LANGUAGE - ENGLIS	Н
The Contractor certifies that the proposed resource(s are fluent in English. The individual(s) proposed must English without any assistance and with minimal erro	t be able to communicate orally and in writing in
Print name of authorized individual & sign above	 Date

# TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

PART 1 (completed by the Technical/Project Authority) / PART	IE 1 (complété par	ie Responsable technique / Chargé	é du projet)		
A. General Information / Informations génér	ales				
Contract Number / Numéro du contrat :					
Contractor Name / Nom du Contracteur :					
Task Authorization (TA) No. / N° Commitment No. / N° de l'autorisation de tâches (AT):    Commitment No. / N° de l'autorisation de tâches (AT):   l'engagement :   financier :   d'émission :   Réponse requise					
B. For Amendments Only / Aux fins de modif	ication seule	<u>ment</u>			
Amendment No. / N° de la modification :					
Reason for the Amendment / Raison pour la modific	ation:				
C. TA Requirements / Exigences relatives à l'A	<u>AT</u>				
Required Resource(s) / Ressource(s) requise(s)					
Category / Catégorie	Level / Niveau	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Linguistic Profile / Profile linguistique	Required Level(s) of Security / Niveau(x) de sécurité requis	
				+	
Statement of Work (tasks, deliverables, reports, etc.)	/ Énoncé des tr	avaux (tâches, livrables	s, rapports, etc.)		
Period of Services / Période de service:					
Initial Start Date / Date de début initiale :		Initial End Da	ite / Date de fin initiale :		
Extented End Date (See Reason for the Amendment)	/ Date de fin p	rolongée (voir Raison p	our la modification) :		
Option To Extend Initial End Date / Option pour	prolonger la da	te de fin initiale			
Travel Requirement(s) / Exigence(s) de voyage :					
Work Location(s) / Lieu(x) de travail :					
PART 2 (completed by the Contractor and/or the Technical/Project Aut	thority) / PART	<b>IE 2</b> (complété par le Contract	eur et/ou le Responsable technique / Ch	argé du projet)	
A. Contractor Resource(s) / Ressource(s) du C		is approuvée, seules les ressources	s suivantes peuvent fournir des services s	ous la présente AT.	

Travaux publics et Services gouvernementaux Canada

## TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

Name / Nom	Cate	gory / Catégoi	rie	Level / Niveau	1	stic Profile / linguistique	Level of Securit de sécurité	y / Niveau	PWGSC Security File No. / Nº du dossier de sécurité TPSGC	
										+
B. Estimated Cost / Coût es	stimatif									
Category / Catégorie		Level / Niveau	Per Diem Rate / Taux journalier		Гаих	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)		Total Cost / Coût estimatif		
-										
					E	stimated Cost	:/Coût estimatif			
	Total	Estimated Trav	el and Livin	g Cost / C	Coût tota	l estimatif de	voyage et de vie	\$0.00		
Taxe % applied / % de ta:	xes appliquées	uées Applicable Taxes / Taxes applicables				\$0.00				
Total Estimated Cost / Coût total es					ût total estimatif	\$0.00				
PART 3 - TA APPROVA	L BY CANA	DA / PARI	TE 3 - AP	PROB/	ATION	DE L'AT P	AR LE CANA	<b>IDA</b>		
By signing this TA, the authorized client certify(ies) that the content of this TA is i							e client autorisé et/o AT est conforme aux			
The client's authorization limit is \$300,000.00 . When the value of a TA and its amendments (including GST/HST) is in excess of this limit, the TA must be signed by the authorized client and forwarded to the PWGSC Contracting Authority for authorization.			nd (inclu	ant la TPS/T		e limite, l'AT doit être		e l'AT et ses modificatio client autorisé et transi		
Name of Authorized Client / Nom du client autorisé Date			Name of Contracting Authority / Nom de Date l'autorité contractante							
Signature				Signa	ture					
PART 4 - CONTRACTO	R SIGNATU	RE / PART	IE 4 - SIG	NATUI	RE DU	CONTRAC	TEUR			
Name and Title of individual authorized to sign on behalf of the Contractor / Nom et titre de la personne autorisée à signer au nom de l'entrepreneur			Sigr	nature			Date			

## Appendix F to Annex A

### **Resources Assessment Criteria and Response Tables**

To facilitate resource assessment, the Contractor must prepare and submit a response to a draft Task Authorization using the tables provided in this Appendix. When completing the resource grids, the specific information which demonstrates the requested criteria and reference to the page number of the résumé should be incorporated so that the assessor can verify this information. The tables should not contain all the project information from the resume. Only the specific answer should be provided.

### 1.0 Mandatory Resource Assessment Criteria

The experience required for a Mandatory Resource Requirement must be demonstrated through one or multiple referenced projects and each referenced project must have a minimum duration of three (3) months in order to be accepted.

# 1.11 Programmer/Software Developer – Specialty in IBM Integration BUS (IIB) – Enterprise Service Bus (ESB)

Experience and Expertise of the Proposed Programmer/Software Developer – Specialty in IBM Integration BUS (IIB) – Enterprise Service Bus (ESB)
Name of proposed Resource:
The Bidder MUST demonstrate that the Proposed Programmer/Software Developer – Specialty in IBM Integration BUS (IIB) – Enterprise Service Bus (ESB) has:

Criteria	Mandatory Requirement	Bidder's response			
		INSERT PAGE # OF RESUME	Met	Not Met	
M.1	A minimum of ten (10) years of experience, within the last twenty (20) years, performing the following tasks as a programmer/software developer:				
	Design detailed programs, flow charts, and diagrams indicating mathematical computation and sequence of machine operations necessary to copy and process data and print the results.				
	Translate detailed flow charts into coded machine instructions and confer with technical personnel in planning programs.				
	<ul> <li>Verify accuracy and completeness of programs by preparing sample data, and testing them by means of system acceptance test runs made by operating personnel.</li> </ul>				
	<ul> <li>Correct program errors by revising instructions or altering the sequence of operations.</li> </ul>				
	<ul> <li>Perform unit testing, and assemble specifications, flow charts, diagrams, layouts, programming and operating instructions to document applications for later modification or reference.</li> </ul>				

Experience and Expertise of the Proposed Programmer/Software Develop	er - Specialty
in IBM Integration BUS (IIB) – Enterprise Service Bus (ESB)	

Name of	proposed	Resource:	

The Bidder MUST demonstrate that the Proposed Programmer/Software Developer – Specialty in IBM Integration BUS (IIB) – Enterprise Service Bus (ESB) has:

Criteria	Mandatory Requirement	Bidder's response			
		INSERT PAGE # OF RESUME	Met	Not Met	
M.2	A minimum of three (3) years of experience, within the last ten (10) years, working as a programmer/software developer developing IBM Integration Bus (IIB) - Enterprise Service Bus (ESB)* solutions, aligned with a Service Oriented Architecture (SOA), in large scale projects (project value of \$6 million or greater) at an enterprise level with multiple stakeholders (greater than 2).  *Or previous versions or instances.				

# 1.12 Programmer/Software Developer - Specialty in IBM Business Process Manager (BPM) Advanced

Experience and Expertise of the Proposed Programmer/Software Developer - Specialty in IBM Business Process Manager (BPM) Advanced
Name of proposed Resource:
The Bidder MUST demonstrate that the Proposed Programmer/Software Developer - Specialty in IBM Business Process Manager (BPM) Advanced has:

Criteria	Mandatory Requirement	Bidder's response			
		INSERT PAGE # OF RESUME	Met	Not Met	
M.1	A minimum of ten (10) years of experience, within the last twenty (20) years, performing the following tasks as a programmer/software developer:				
	Design detailed programs, flow charts, and diagrams indicating mathematical computation and sequence of machine operations necessary to copy and process data and print the results.				
	Translate detailed flow charts into coded machine instructions and confer with technical personnel in planning programs.				
	<ul> <li>Verify accuracy and completeness of programs by preparing sample data, and testing them by means of system acceptance test runs made by operating personnel.</li> </ul>				
	<ul> <li>Correct program errors by revising instructions or altering the sequence of operations.</li> </ul>				
	<ul> <li>Perform unit testing, and assemble specifications, flow charts, diagrams, layouts, programming and operating instructions to document applications for later modification or reference.</li> </ul>				

Experience and Expertise of the Proposed Programmer/Software Developer - Specialty in IBM Business Process Manager (BPM) Advanced	1
Name of proposed Resource:	

The Bidder MUST demonstrate that the Proposed Programmer/Software Developer - Specialty in IBM Business Process Manager (BPM) Advanced has:

Criteria	Mandatory Requirement	Bidder's response			
		INSERT PAGE # OF RESUME	Met	Not Met	
M.2	A minimum of three (3) years of experience, within the last ten (10) years, working as a programmer/software developer developing IBM Business Process Management (BPM)* solutions, aligned with a Service Oriented Architecture (SOA), on large scale projects (project value of \$6 million or greater) at an enterprise level with multiple stakeholders (greater than 2).				
	*Or previous versions or instances.				

# 1.13 Programmer/Software Developer – Specialty in IBM Operational Decision Manager (ODM) Standard and Advanced

Experience and Expertise of the Proposed Programmer/Software Developer – Specialty in IBM Operational Decision Manager (ODM) Standard and Advanced	/
Name of proposed Resource:	
The Bidder MUST demonstrate that the Proposed Programmer/Software Developer –	

Criteria	Mandatory Requirement	Bidder's response		
		INSERT PAGE # OF RESUME	Met	Not Met
M.1	A minimum of ten (10) years of experience, within the last twenty (20) years, performing the following tasks as a programmer/software developer:			
	<ul> <li>Design detailed programs, flow charts, and diagrams indicating mathematical computation and sequence of machine operations necessary to copy and process data and print the results.</li> </ul>			
	Translate detailed flow charts into coded machine instructions and confer with technical personnel in planning programs.			
	<ul> <li>Verify accuracy and completeness of programs by preparing sample data, and testing them by means of system acceptance test runs made by operating personnel.</li> </ul>			
	<ul> <li>Correct program errors by revising instructions or altering the sequence of operations.</li> </ul>			
	<ul> <li>Perform unit testing, and assemble specifications, flow charts, diagrams, layouts, programming and operating instructions to document applications for later modification or reference.</li> </ul>			

Experience and Expertise of the Proposed Programmer/Software Developer – Specialty
in IBM Operational Decision Manager (ODM) Standard and Advanced

Name of proposed Resource	
---------------------------	--

The Bidder MUST demonstrate that the Proposed Programmer/Software Developer – Specialty in IBM Operational Decision Manager (ODM) Standard and Advanced has:

Criteria	Mandatory Requirement	Bidder's response		
		INSERT PAGE # OF RESUME	Met	Not Met
M.2	A minimum of three (3) years of experience, within the last ten (10) years, working as a programmer/software developer developing IBM Operational Decision Management (ODM)* solutions including the creation of executable object models (XOM), business object models (BOM), and the authoring of rules for a rules engine**, aligned with a Service Oriented Architecture (SOA), in large scale projects (project value of \$6 million or greater) at an enterprise level with multiple stakeholders (greater than 2).  *Or previous versions or instances.  **includes separate Business rules and Business events components prior to creation of IBM Operational Decision Management (ODM) (Advanced).			

# 1.14 Application/Software Architect – Specialty in IBM Integration Bus (IIB) – Enterprise Service Bus (ESB)

Experience and Expertise of the Proposed Application/Software Architect – Specialty in IBM Integration Bus (IIB) – Enterprise Service Bus (ESB)
Name of proposed Resource:
The Bidder MUST demonstrate that the Proposed Application/Software Architect – Specialty

The Bidder MUST demonstrate that the Proposed Application/Software Architect – Specialty in IBM Integration Bus (IIB) – Enterprise Service Bus (ESB) has:

Criteria	Mandatory Requirement	Bidder's response			
		INSERT PAGE # OF RESUME	Met	Not Met	
M.1	A minimum of ten (10) years of experience, within the last twenty (20) years, performing the following tasks as an application/software architect:				
	<ul> <li>Develop technical architectures, frameworks and strategies, either for an organization or for a major application area, to meet the business and application requirements.</li> </ul>				
	<ul> <li>Identify the policies and requirements that drive out a particular solution.</li> </ul>				
	Analyse and evaluate alternative technology solutions to meet business problems.				
	Ensures the integration of all aspects of technology solutions.				
	<ul> <li>Monitor industry trends to ensure that solutions fit with government and industry directions for technology.</li> </ul>				
	<ul> <li>Analyse functional requirements to identify information, procedures and decision flows.</li> </ul>				
	<ul> <li>Evaluate existing procedures and methods, identify and document database content, structure, and application sub-systems, and develop data dictionary.</li> </ul>				
	Define and document interfaces of manual to automated operations within application sub-systems, to external systems and between new and existing systems.				
	Define input and output sources, including detailed plan for technical design phase, and obtain approval of the system proposal.				
	<ul> <li>Identify and document system specific standards relating to programming, documentation and testing, covering program libraries, data dictionaries, naming conventions, etc.</li> </ul>				

	ce and Expertise of the Proposed Application/Soft on Bus (IIB) – Enterprise Service Bus (ESB)	tware Architect –	Specialt	y in IBM
Name of	proposed Resource:			
	er MUST demonstrate that the Proposed Applicati tegration Bus (IIB) – Enterprise Service Bus (ESB)		itect – S	Specialty
Criteria	Mandatory Requirement	Bidder's	respor	rse
		INSERT PAGE # OF RESUME	Met	Not Met
M.2	A minimum of three (3) years of experience, within the last ten (10) years, working as an application/software architect on the design, prototyping, components integration and oversight, as part of an IBM Integration Bus (IIB) – Enterprise Service Bus (ESB)* large scale (project value of \$6 million or greater) solution implementation, aligned with a Service Oriented Architecture (SOA), at an enterprise level with multiple stakeholders (greater			

than 2).

\*Or previous versions or instances.

# 1.15 Application/Software Architect – Specialty in IBM Business Process Manager (BPM) Advanced

Experience and Expertise of the Proposed Application/Software Architect – Specialty in IBM Business Process Manager (BPM) Advanced
Name of proposed Resource:
The Bidder MUST demonstrate that the Proposed Application/Software Architect – Specialty in IBM Business Process Manager (BPM) Advanced has:

Criteria	Mandatory Requirement	Bidder's response		
		INSERT PAGE # OF RESUME	Met	Not Met
M.1				
	A minimum of ten (10) years of experience, within the last twenty (20) years, performing the following tasks as an application/software architect:			
	<ul> <li>Develop technical architectures, frameworks and strategies, either for an organization or for a major application area, to meet the business and application requirements.</li> </ul>			
	<ul> <li>Identify the policies and requirements that drive out a particular solution.</li> </ul>			
	<ul> <li>Analyse and evaluate alternative technology solutions to meet business problems.</li> </ul>			
	<ul> <li>Ensures the integration of all or key aspects of technology solutions.</li> </ul>			
	<ul> <li>Monitor industry trends to ensure that solutions fit with government and industry directions for technology.</li> </ul>			
	<ul> <li>Analyse functional requirements to identify information, procedures and decision flows.</li> </ul>			
	<ul> <li>Evaluate existing procedures and methods, identify and document database content, structure, and application sub-systems, and develop data dictionary.</li> </ul>			
	<ul> <li>Define and document interfaces of manual to automated operations within application sub-systems, to external systems and between new and existing systems.</li> </ul>			
	<ul> <li>Define input and output sources, including detailed plan for technical design phase.</li> </ul>			

Experience and Expertise of the Proposed Application/Software Architect – Specialty in IBM Business Process Manager (BPM) Advanced	
Name of proposed Resource:	

The Bidder MUST demonstrate that the Proposed Application/Software Architect – Specialty in IBM Business Process Manager (BPM) Advanced has:

Criteria	Mandatory Requirement	Bidder's response			
		INSERT PAGE # OF RESUME	Met	Not Met	
M.2	A minimum of three (3) years of experience, within the last ten (10) years, working as an application/software architect on the design, prototyping, components integration and oversight, as part of an IBM Business Process Management (BPM)* Advanced large scale (project value of \$6 million or greater) solution implementation, aligned with a Service Oriented Architecture (SOA), at an enterprise level with multiple stakeholders (greater than 2).  *Or previous versions or instances.				

# 1.16 Application/Software Architect – Specialty in IBM Operational Decision Manager (ODM) Standard and Advanced

Experience and Expertise of the Proposed Application/Software Architect – Specialty in IBM Operational Decision Manager (ODM) Standard and Advanced	_
Name of proposed Resource:	
The Bidder MUST demonstrate that the Proposed Application/Software Architect – Specialty in IBM Operational Decision Manager (ODM) Standard and Advanced has:	

Criteria	Mandatory Requirement	Bidder's response		
		INSERT PAGE # OF RESUME	Met	Not Met
M.1	A minimum of ten (10) years of experience, within the last twenty (20) years, performing the following tasks as an application/software architect:			
	<ul> <li>Develop technical architectures, frameworks and strategies, either for an organization or for a major application area, to meet the business and application requirements.</li> </ul>			
	Identify the policies and requirements that drive out a particular solution.			
	Analyse and evaluate alternative technology solutions to meet business problems.			
	Ensures the integration of all aspects of technology solutions.			
	<ul> <li>Monitor industry trends to ensure that solutions fit with government and industry directions for technology.</li> </ul>			
	Analyse functional requirements to identify information, procedures and decision flows.			
	<ul> <li>Evaluate existing procedures and methods, identify and document database content, structure, and application sub-systems, and develop data dictionary.</li> </ul>			
	<ul> <li>Define and document interfaces of manual to automated operations within application sub- systems, to external systems and between new and existing systems.</li> </ul>			
	Define input and output sources, including detailed plan for technical design phase, and obtain approval of the system proposal.			
	<ul> <li>Identify and document system specific standards relating to programming, documentation and testing, covering program libraries, data dictionaries, naming conventions, etc.</li> </ul>			

Experience and Expertise of the Proposed Application/Software Architect – Specialty in
IBM Operational Decision Manager (ODM) Standard and Advanced
Name of proposed Resource:

The Bidder MUST demonstrate that the Proposed Application/Software Architect – Specialty in IBM Operational Decision Manager (ODM) Standard and Advanced has:

Criteria	Mandatory Requirement	Bidder's response			
		INSERT PAGE # OF RESUME	Met	Not Met	
M.2	A minimum of three (3) years of experience, within the last ten (10) years, working as an application/software architect on the design, prototyping, components integration and oversight, as part of an IBM Operational Decision Manager (ODM)*, large scale (project value of \$6 million or greater) solution implementation, aligned with a Service Oriented Architecture (SOA), at an enterprise level with multiple stakeholders (greater than 2).  *Or previous versions or instances.				

# 1.17 Test Coordinator - Specialty in Test coordination of one or many of the following Products: IBM MDM, IBM BPM, IBM IIS DataStage and QualityStage, IBM IIB-ESB, IBM ODM Standard and Advanced

Experien	ce and Expertise of the Proposed Test Coo	rdinator – Specialty i	in IBM p	roducts	
Name of	proposed Resource:				
The Bidd products	ler MUST demonstrate that the Proposed Te has:	est Coordinator – Spe	ecialty in	n IBM	
Criteria	Mandatory Requirement	Bidder's response			
		INSERT PAGE # OF RESUME	Met	Not Met	
M.1	A minimum of ten (10) years of experience, within the last twenty (20) years, performing the following tasks as a test coordinator:				
	<ul> <li>Develop and provide advice, guidance and coordination efforts for test strategies and plans, selection of automated testing tools, and identification of resources required for testing.</li> </ul>				
	<ul> <li>Plan, organize, schedule, and report on testing efforts for large systems including the execution of systems integration tests, specialized tests, and user acceptance testing (e.g., stress tests).</li> </ul>				
M.2	A minimum of two (2) years of experience, working as a test coordinator, within the last ten (10) years, planning, scheduling, coordinating and reporting on the testing phase of a large scale (project value of \$6 million or greater) IBM Master Data Management (MDM)* solution and/or an IBM Enterprise Service Bus (ESB)* solution implementation at an enterprise level with multiple stakeholders (greater than 2) and multiple integration points.				

\*Or previous versions or instances.

#### 1.18 Technology Architect - Specialty in IBM Integration Bus (IIB) – Enterprise Service Bus (ESB) Configuration and Release Management

Experience and Expertise of the Proposed Technology Architect – Specialty in IBM Integration Bus (IIB) – Enterprise Service Bus (ESB) Configuration and Release Management	
Name of proposed Resource:	

The Bidder MUST demonstrate that the Proposed Technology Architect – Specialty in IBM Integration Bus (IIB) – Enterprise Service Bus (ESB) Configuration and Release Management has:

Criteria	Mandatory Requirement	Bidder's r	esponse	)
		INSERT PAGE # OF RESUME	Met	Not Met
M.1	A minimum of ten (10) years of experience, within the last twenty (20) years, performing the following tasks as a technology architect:			
	<ul> <li>Prepare implementation plans and strategy in preparation of solutions' deployments</li> </ul>			
	Develop, implement and maintain automated build and load deployment scripts			
	Maintain and support project source repository			
	<ul> <li>Configure and optimize technical installations including the integration of technical components.</li> </ul>			
	Ensure alignment of releases in both development and testing environments.			
M.2	A minimum of three (3) years of experience, within the last ten (10) years, working as a technology architect on the configuration, optimization and deployment of an IBM Integration Bus (IIB) - Enterprise Service Bus (ESB)* project solution implementation, aligned with a Service Oriented Architecture (SOA), in large scale projects (project value of \$6 million or greater) at an enterprise level with multiple stakeholders (greater than 2).			
	*Or previous versions or instances.			

#### 2.0 Point-Rated Resource Assessment Criteria:

The experience required for a Mandatory Resource Requirement should be demonstrated through one or multiple referenced projects and each referenced project should have a minimum duration of three (3) months in order to be accepted.

(See next page)

## 2.11 Programmer/Software Developer - Specialty in IBM Integration Bus (IIB) – Enterprise Service Bus (ESB)

Experience and Expertise of the Proposed Programmer/Software Developer - Specialty in	
IBM Integration Bus (IIB) – Enterprise Service Bus (ESB)	
Name of proposed Resource:	
The Bidder SHOULD demonstrate that the Proposed Programmer/Software Developer -	
Specialty in IBM Integration Bus (IIB) – Enterprise Service Bus (ESB) has:	

	V annual control of the control of t	BIDDER'S RESI	PONSE	
#	RATED CRITERIA	POINTS	DEMONSTRATED EXPERIENCE	INSERT PAGE # OF RESUME
R.1	In addition to M2, experience, within the last ten (10) years, working as a programmer/software developer developing IBM Integration Bus (IIB) – Enterprise Service Bus (ESB)* solutions, aligned with a Service Oriented Architecture (SOA), in large scale projects (project value of \$6 million or greater) at an enterprise level with multiple stakeholders (greater than 2).	15	<ul> <li>3+ to 4 years = 5 points</li> <li>4+ to 5 years = 10 points</li> <li>5+ years = 15 points</li> </ul>	

<b>Experience and Expertise of the</b>	<b>Proposed Programmer/Softwar</b>	e Developer - Specialty in
IBM Integration Bus (IIB) - Enter	prise Service Bus (ESB)	

Name of proposed Resource	
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The Bidder SHOULD demonstrate that the Proposed Programmer/Software Developer - Specialty in IBM Integration Bus (IIB) – Enterprise Service Bus (ESB) has:

		BIDDER'S RES	PONSE	
#	RATED CRITERIA	POINTS	DEMONSTRATED EXPERIENCE	INSERT PAGE #
R.2	Experience, within the last ten (10) years, working as a programmer/software developer on large scale projects (project value of \$6 million or greater) with an IBM Integration Bus (IIB) – Enterprise Service Bus (ESB)* component that required an integration with one or more of the following products:  • IBM Operational Decision Manager (ODM)* Standard or Advanced  • IBM InfoSphere Identity Insight (ISII)*  • IBM Master Data Management (MDM)*  • IBM Global Name Manager (GNM)  • IBM InfoSphere Information Server DataStage or QualityStage  • IBM Business Process Management (BPM)* Advanced  *Or previous versions or instances.	15	<ul> <li>1 to 2 years = 5 points</li> <li>2+ to 3 years = 10 points</li> <li>3+ years = 15 points</li> </ul>	

Experience and Expertise	e of the Proposed Programmer/Software I	Developer - Specialty in
IBM Integration Bus (IIB)	<ul><li>Enterprise Service Bus (ESB)</li></ul>	

Name	of p	proposed	Resource:	

The Bidder SHOULD demonstrate that the Proposed Programmer/Software Developer - Specialty in IBM Integration Bus (IIB) – Enterprise Service Bus (ESB) has:

		BIDDER'S RESPONSE		
#	RATED CRITERIA	POINTS	DEMONSTRATED EXPERIENCE	INSERT PAGE #
R.3	Experience, within the last ten (10) years, working as a programmer/software developer on projects with an ESB component for a government* client.  *Government may include the Federal, Provincial or Municipal Government. The Government of Canada includes any department, agency, board of the Government of Canada or a Crown corporation.	5	<ul> <li>1 to 2 years = 1 points</li> <li>2+ to 3 years = 3 points</li> <li>3+ years = 5 points</li> </ul>	
Maximum available points		35		
Minimum points required		21		

## 2.12 Programmer/Software Developer - Specialty in IBM Business Process Manager (BPM) Advanced

Experience and Expertise of the Proposed Programmer/Software Developer - Specialty in IBM Business Process Manager (BPM) Advanced	
Name of proposed Resource:	
The Bidder SHOULD demonstrate that the Proposed Programmer/Software Developer -	

			BIDDER'S RESPONSE		
#	RATED CRITERIA	POINTS	DEMONSTRATED EXPERIENCE	INSERT PAGE #	
R.1	In addition to M2, experience, within the last ten (10) years, working as programmer/software developer developing IBM Business Process Management (BPM)* solutions, aligned with a Service Oriented Architecture (SOA), on large scale projects (project value of \$6 million or greater) at an enterprise level with multiple stakeholders (greater than 2).  *Or previous versions or instances.	15	<ul> <li>3+ to 4 years = 5 points</li> <li>4+ to 5 years = 10 points</li> <li>5+ years = 15 points</li> </ul>		

Experience and Expertise of the Proposed Programmer/Software Developer - Specialty in IBM Business Process Manager (BPM) Advanced
Name of proposed Resource:

The Bidder SHOULD demonstrate that the Proposed Programmer/Software Developer - Specialty in IBM Business Process Manager (BPM) Advanced has:

		BIDDER'S RES	PONSE	
#	RATED CRITERIA	POINTS	DEMONSTRATED EXPERIENCE	INSERT PAGE # OF RESUME
R.2	Experience, within the last ten (10) years, working as a programmer/software developer on large scale projects with a IBM Business Process Management (BPM)* component with integration of one or more of the following products:  IBM Operational Decision Manager (ODM)* Standard or Advanced IBM Integration Bus (IIB) – Enterprise Service Bus (ESB)* IBM Master Data Management(MDM)*	15	<ul> <li>1 to 2 years = 5 points</li> <li>2+ to 3 years = 10 points</li> <li>3+ years = 15 points</li> </ul>	
R.3	Experience, within the last ten (10) years, working as a programmer/software developer on projects with a BPM component for a government* client.  *Government may include the Federal, Provincial or Municipal Government. The Government of Canada includes any department, agency, board of the Government of Canada or a Crown corporation.	5	<ul> <li>1 to 2 years = 1 points</li> <li>2+ to 3 years = 3 points</li> <li>3+ years = 5 points</li> </ul>	
	Maximum available points	35		
	Minimum points required	21		

## 2.13 Programmer/Software Developer - Specialty in IBM Operational Decision Manager (ODM) Standard and Advanced

Experience and Expertise of the Proposed Programmer/Software Developer - Specialty in IBM Operational Decision Manager (ODM) Standard and Advanced	
Name of proposed Resource:	
The Bidder SHOULD demonstrate that the Proposed Programmer/Software Developer - Specialty in IBM Operational Decision Manager (ODM) Standard and Advanced has:	

		BIDDER'S RESPONSE		
#	RATED CRITERIA	POINTS	DEMONSTRATED EXPERIENCE	INSERT PAGE # OF RESUME
R.1	In addition to M2, experience, within the last ten (10) years, working as a programmer/software developer developing IBM Operational Decision Management (ODM)* solutions including the creation of executable object models (XOM), business object models (BOM), and the authoring of rules for a rules engine**, aligned with a Service Oriented Architecture (SOA), in large scale projects (project value of \$6 million or greater) at an enterprise level with multiple stakeholders (greater than 2).  *Or previous versions or instances.  **Includes separate Business rules and Business events components prior to creation of IBM ODM (Advanced).	15	<ul> <li>3+ to 4 years = 5 points</li> <li>4+ to 5 years = 10 points</li> <li>5+ years = 15 points</li> </ul>	

Experience and Expertise of the Proposed Programmer/Software Developer - Special	ty in
IBM Operational Decision Manager (ODM) Standard and Advanced	

Name of proposed Resource:	
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The Bidder SHOULD demonstrate that the Proposed Programmer/Software Developer - Specialty in IBM Operational Decision Manager (ODM) Standard and Advanced has:

			BIDDER'S RESPONSE			
#	RATED CRITERIA	POINTS	DEMONSTRATED EXPERIENCE	INSERT PAGE # OF RESUME		
R.2	Experience, within the last ten (10) years, working as a programmer/software developer on large scale projects with an IBM Operational Decision Management (ODM)* component with integration of one or more of the following products:  • IBM Business Process Management (BPM)* • IBM Integration Bus (IIB) – Enterprise Service Bus (ESB)* • IBM Master Data Management (MDM)*  *Or previous versions or instances.	15	<ul> <li>1 to 2 years = 5 points</li> <li>2+ to 3 years = 10 points</li> <li>3+ years = 15 points</li> </ul>			
R.3	Experience, within the last five (5) years, working as a programmer/software developer on projects with an IBM Operational Decision Management (ODM)* component with volumes equal to or exceeding 10 million transactions per year.  *Or previous versions or instances.	5	<ul> <li>10 million to 12 million transactions = 1 point</li> <li>12+ million to 14 million transactions = 3 points</li> <li>14+ million transactions per year = 5 points</li> </ul>			

Experience and Expertise of the Proposed Programmer/Software Developer - Specialty	y in
IBM Operational Decision Manager (ODM) Standard and Advanced	

Name	of p	roposed	Resource:	

The Bidder SHOULD demonstrate that the Proposed Programmer/Software Developer - Specialty in IBM Operational Decision Manager (ODM) Standard and Advanced has:

		BIDDER'S RESPONSE			
#	RATED CRITERIA	POINTS	DEMONSTRATED EXPERIENCE	INSERT PAGE #	
R.4	Experience, within the last ten (10) years, working as a programmer/software developer on projects with a rule engine component for a government* client.  *Government may include the Federal, Provincial or Municipal Government. The Government of Canada includes any department, agency, board of the Government of Canada or a Crown corporation.	5	<ul> <li>1 to 2 years = 1 points</li> <li>2+ to 3 years = 3 points</li> <li>3+ years = 5 points</li> </ul>		
	Maximum available points	40			
	Minimum points required	24			

## 2.14 Application/Software Architect – Specialty in IBM Integration Bus (IIB) – Enterprise Service Bus (ESB)

Experience and Expertise of the Proposed Application/Software Architect – Specialty in IBM Integration Bus (IIB) – Enterprise Service Bus (ESB)
Name of proposed Resource:
The Bidder SHOULD demonstrate that the Proposed Application/Software Architect –

		BIDDER'S RES	PONSE	
#	RATED CRITERIA	POINTS MAX	DEMONSTRATED EXPERIENCE	INSERT PAGE #
R.1	Experience, as an application/software architect, within the last ten (10) years, on the design, prototyping, components integration and oversight, as part of an IBM Integration Bus (IIB)* – Enterprise Service Bus (ESB) large scale (project value of \$6 million or greater) solution implementation, aligned with a Service Oriented Architecture (SOA), at an enterprise level with multiple stakeholders (greater than 2).	15	<ul> <li>3+ to 4 years = 5 points</li> <li>4+ to 5 years = 10 points</li> <li>5+ years = 15 points</li> </ul>	

Experience and	d Expertise of the	Proposed Applicati	on/Software Arch	nitect – Specialty in IBN
Integration Bus	s (IIB) – Enterprise	e Service Bus (ESB)	)	

Name of proposed Resource	
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The Bidder SHOULD demonstrate that the Proposed Application/Software Architect – Specialty in IBM Integration Bus (IIB) – Enterprise Service Bus (ESB) has:

	BIDDER'S RES	PONSE	
RATED CRITERIA	POINTS	DEMONSTRATED EXPERIENCE	INSERT PAGE #
Experience, as an application/software architect, within the last ten (10) years, performing the integration of IBM IIB-ESB* with one or more of the following products:   IBM Operational Decision Manager (ODM)* Standard or Advanced  IBM InfoSphere Identity Insight (ISII)*  IBM Master Data Management (MDM)*  IBM Business Process Management (BPM)* Advanced	15	<ul> <li>1 to 2 years = 5 points</li> <li>2+ to 3 years = 10 points</li> <li>3+ years = 15 points</li> </ul>	
	Experience, as an application/software architect, within the last ten (10) years, performing the integration of IBM IIB-ESB* with one or more of the following products:   • IBM Operational Decision Manager (ODM)* Standard or Advanced  • IBM InfoSphere Identity Insight (ISII)*  • IBM Master Data Management (MDM)*  • IBM Business Process	Experience, as an application/software architect, within the last ten (10) years, performing the integration of IBM IIB-ESB* with one or more of the following products:   IBM Operational Decision Manager (ODM)* Standard or Advanced IBM InfoSphere Identity Insight (ISII)* IBM Master Data Management (MDM)*  IBM Business Process Management (BPM)* Advanced	RATED CRITERIA  Experience, as an application/software architect, within the last ten (10) years, performing the integration of IBM IIB-ESB* with one or more of the following products:  • IBM Operational Decision Manager (ODM)* Standard or Advanced • IBM InfoSphere Identity Insight (ISII)* • IBM Master Data Management (MDM)* • IBM Business Process Management (BPM)* Advanced

Experience and Ex	pertise of the Proposed	Application/Software	Architect -	Specialty in IBM
Integration Bus (IIB	3) – Enterprise Service B	us (ESB)		

Name of proposed Resource	
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The Bidder SHOULD demonstrate that the Proposed Application/Software Architect – Specialty in IBM Integration Bus (IIB) – Enterprise Service Bus (ESB) has:

			BIDDER'S RESPONSE		
#	RATED CRITERIA	POINTS	DEMONSTRATED EXPERIENCE	INSERT PAGE #	
R.3	Experience, as an application/software architect, within the last ten (10) years, in the development of security requirements* of an IBM IIB-ESB* implementation that required integration with one or more of the following COTS:   • Master Data Management (MDM)**  • IBM Business Process Management (BPM)** Advanced  • IBM Operational Decision Manager (ODM)** Standard or Advanced  • IBM InfoSphere Identity Insight (ISII)**  • IBM Global Name Manager (GNM)  • IBM InfoSphere Information Server DataStage or QualityStage  *Security requirements include the integration of MDM with other products part of a solution and alignment with security frameworks, security policies, and guidelines.	15	<ul> <li>1 to 2 years = 5 points</li> <li>2+ to 3 years = 10 points</li> <li>3+ years = 15 points</li> </ul>		

	Experience and Expertise of the Proposed Application/Software Architect – Specialty in IBM
	Integration Bus (IIB) – Enterprise Service Bus (ESB)
I	

Name of proposed Resource:

The Bidder SHOULD demonstrate that the Proposed Application/Software Architect – Specialty in IBM Integration Bus (IIB) – Enterprise Service Bus (ESB) has:

			BIDDER'S RES	ONSE	
#	RATED CRITERIA	POINTS	DEMONSTRATED EXPERIENCE	INSERT PAGE #	
R.4	Experience, within the last ten (10) years, working as an application/software architect on projects with an ESB component for a government* client.  *Government may include the Federal, Provincial or Municipal Government. The Government of Canada includes any department, agency, board of the Government of Canada or a Crown corporation.	5	<ul> <li>1 to 2 years = 1 points</li> <li>2+ to 3 years = 3 points</li> <li>3+ years = 5 points</li> </ul>		
Maximum available points 50		50			
	Minimum points required	30			

#### 2.15 Application/Software Architect – Specialty in IBM Business Process Manager (BPM) Advanced

Experience and Expertise of the Proposed Application/Software Architect – Specialty in IBM Business Process Manager (BPM) Advanced	
Name of proposed Resource:	
The Bidder SHOULD demonstrate that the Proposed Application/Software Architect – Specialty in IBM Business Process Manager (BPM) Advanced has:	

			BIDDER'S RESPONSE	
#	RATED CRITERIA	POINTS	DEMONSTRATED EXPERIENCE	INSERT PAGE #
R.1	In addition to M2, experience, within the last ten (10) years, working as an application/software architect on the design, prototyping, components integration and oversight, as part of an IBM Business Process Management (BPM)* Advanced large scale (project value of \$6 million or greater) solution implementation, aligned with a Service Oriented Architecture (SOA), at an enterprise level with multiple stakeholders (greater than 2).	15	<ul> <li>3+ to 4 years = 5 points</li> <li>4+ to 5 years = 10 points</li> <li>5+ years = 15 points</li> </ul>	

Experience and Expertise of the Proposed Application/Software Architect –	<ul> <li>Specialty in IBM</li> </ul>
Business Process Manager (BPM) Advanced	

Name of proposed Resource	
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The Bidder SHOULD demonstrate that the Proposed Application/Software Architect – Specialty in IBM Business Process Manager (BPM) Advanced has:

			BIDDER'S RES	PONSE
#	RATED CRITERIA	POINTS	DEMONSTRATED EXPERIENCE	INSERT PAGE # OF RESUME
R.2	Experience as an application/software architect, within the last ten (10) years, performing the integration of IBM Business Process Management (BPM)* with one or more of the following IBM products:  IBM Master Data Management(MDM)* IBM Integration Bus (IIB) – Enterprise Service Bus (ESB)*  *Or previous versions or instances.	15	<ul> <li>1 to 2 years = 5 points</li> <li>2+ to 3 years = 10 points</li> <li>3+ years = 15 points</li> </ul>	

Experience and Expertise of the Proposed Application/Software Architect – Specialty in IBN
Business Process Manager (BPM) Advanced

Name of proposed Resource	
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The Bidder SHOULD demonstrate that the Proposed Application/Software Architect – Specialty in IBM Business Process Manager (BPM) Advanced has:

		BIDDER'S RES	PONSE
RIA	POINTS	DEMONSTRATED EXPERIENCE	INSERT PAGE #
tion/software architect in the of security requirements* of ess Process Management mentation that required an thone or more of the TS:  Operational Decision ager (ODM)** Standard or need of mfoSphere Identity Insight agement (MDM)** Integration Bus (IIB) — prise Service Bus (ESB)** Global Name Manager (M) infoSphere Information or DataStage or tyStage  uirements include the BPM with other products ion and alignment with eworks, security policies, s.	15	<ul> <li>1 to 2 years = 5 points</li> <li>2+ to 3 years = 10 points</li> <li>3+ years = 15 points</li> </ul>	
	within the last ten (10) years, tion/software architect in the of security requirements* of ess Process Management mentation that required an th one or more of the TS:  Operational Decision ager (ODM)** Standard or need infoSphere Identity Insight **  Master Data agement(MDM)** integration Bus (IIB) — prise Service Bus (ESB)** Global Name Manager (M) infoSphere Information er DataStage or ityStage in the more products the more products the more policies, is services or instances.	within the last ten (10) years, tion/software architect in the of security requirements* of ess Process Management mentation that required an th one or more of the TS:  Operational Decision ager (ODM)** Standard or need infoSphere Identity Insight **  Master Data agement(MDM)** integration Bus (IIB) — prise Service Bus (ESB)** Global Name Manager (M) infoSphere Information er DataStage or ityStage in and alignment with eworks, security policies, is.	Points Max  Demonstrated Experience  within the last ten (10) years, tion/software architect in the of security requirements* of ease Process Management mentation that required an th one or more of the TS:  Deparational Decision ager (ODM)** Standard or need offoSphere Identity Insight  Master Data agement(MDM)** ntegration Bus (IIB) – prise Service Bus (ESB)** Global Name Manager M) nfoSphere Information er DataStage or ityStage  uirements include the BPM with other products tion and alignment with eworks, security policies, is.

	Experience and Expertise of the Proposed Application/Software Architect – Specialty in IBM
	Business Process Manager (BPM) Advanced
ı	

Name	of pr	oposed	Resource:	

The Bidder SHOULD demonstrate that the Proposed Application/Software Architect – Specialty in IBM Business Process Manager (BPM) Advanced has:

			BIDDER'S RES	PONSE
#	RATED CRITERIA	POINTS	DEMONSTRATED EXPERIENCE	INSERT PAGE #
R.4	Experience, within the last ten (10) years, working as an application/software architect on a project(s) with a BPM component for a government* client.  *Government may include the Federal, Provincial or Municipal Government. The Government of Canada includes any department, agency, board of the Government of Canada or a Crown corporation.	5	<ul> <li>1 to 2 years = 1 points</li> <li>2+ to 3 years = 3 points</li> <li>3+ years = 5 points</li> </ul>	
	Maximum available points	50		
Minimum points required		30		

## 2.16 Application/Software Architect – Specialty in IBM Operational Decision Manager (ODM) Standard and Advanced

Experience and Expertise of the Proposed Application/Software Architect – Specialty in IBI Operational Decision Manager (ODM) Standard and Advanced	M
Name of proposed Resource:	
The Bidder SHOULD demonstrate that the Proposed Application/Software Architect – Specialty in IBM Operational Decision Manager (ODM) Standard and Advanced has:	

			BIDDER'S RES	PONSE
#	RATED CRITERIA	POINTS	DEMONSTRATED EXPERIENCE	INSERT PAGE # OF RESUME
R.1	In addition to M2, experience, within the last ten (10) years, working as an application/software architect on the design, prototyping, components integration and oversight, as part of an IBM Operational Decision Manager (ODM)*, large scale (project value of \$6 million or greater) solution implementation, aligned with a Service Oriented Architecture (SOA), at an enterprise level with multiple stakeholders (greater than 2).	15	<ul> <li>3+ to 4 years = 5 points</li> <li>4+ to 5 years = 10 points</li> <li>5+ years = 15 points</li> </ul>	

Experience and Expertise of the Proposed Application/Software Architect – Specialty in	IBM
Operational Decision Manager (ODM) Standard and Advanced	

Name	of	proposed	Resource:	

The Bidder SHOULD demonstrate that the Proposed Application/Software Architect – Specialty in IBM Operational Decision Manager (ODM) Standard and Advanced has:

			BIDDER'S RESPONSE	
#	RATED CRITERIA	POINTS MAX	DEMONSTRATED EXPERIENCE	INSERT PAGE #
R.2	Experience, within the last ten (10) years, working as an application/software architect on the integration of IBM Operational Decision Manager (ODM)* with one or more of the following IBM products listed below on a large scale project (project value of \$6 million or greater) solution implementation at an enterprise level with multiple stakeholders (greater than 2).  IBM Integration Bus (IIB) — Enterprise Service Bus (ESB)* IBM Business Process Management (BPM)* Advanced IBM InfoSphere Information Server (IIS) DataStage or QualityStage	15	<ul> <li>1 to 2 years = 5 points</li> <li>2+ to 3 years = 10 points</li> <li>3+ years = 15 points</li> </ul>	

Experience and Expertise of the Proposed Application/Software Architect – Specialty in II	BM
Operational Decision Manager (ODM) Standard and Advanced	

Name of proposed Resource	
---------------------------	--

The Bidder SHOULD demonstrate that the Proposed Application/Software Architect – Specialty in IBM Operational Decision Manager (ODM) Standard and Advanced has:

	RATED CRITERIA	POINTS MAX	BIDDER'S RESPONSE	
#			DEMONSTRATED EXPERIENCE	INSERT PAGE # OF RESUME
R.3	Experience, within the last ten (10) years, as an application/software architect in the development of security requirements* of a solution implementation that required integration with one or more of the following COTS:   • IBM Operational Decision Manager (ODM)** Standard or Advanced • IBM InfoSphere Identity Insight (ISII)** • IBM Master Data Management(MDM)** • IBM Integration Bus (IIB) – Enterprise Service Bus (ESB)** • IBM Global Name Manager (GNM) • IBM InfoSphere Information Server DataStage or QualityStage • IBM Business Process Management (BPM)** Advanced  *Security requirements include the integration of IBM Operational Decision Manager (ODM) Standard or Advanced with other products part of a solution and alignment with security frameworks, security policies, and guidelines.  **Or previous versions or instances.	15	<ul> <li>1 to 2 years = 5 points</li> <li>2+ to 3 years = 10 points</li> <li>3+ years = 15 points</li> </ul>	

Experience and Expertise of the Proposed Application/Software Architect – Specialty in IBM
Operational Decision Manager (ODM) Standard and Advanced
Name of proposed Resource:

The Bidder SHOULD demonstrate that the Proposed Application/Software Architect – Specialty in IBM Operational Decision Manager (ODM) Standard and Advanced has:

			BIDDER'S RESPONSE	
#	RATED CRITERIA	POINTS	DEMONSTRATED EXPERIENCE	INSERT PAGE #
R.4	Experience, within the last ten (10) years, working as an application/software architect on projects with a rule engine for a government* client.  *Government may include the Federal, Provincial or Municipal Government. The Government of Canada includes any department, agency, board of the Government of Canada or a Crown corporation.	5	<ul> <li>1 to 2 years = 1 points</li> <li>2+ to 3 years = 3 points</li> <li>3+ years = 5 points</li> </ul>	
	Maximum available points	50		
	Minimum points required	30		

2.17 Test Coordinator - Specialty in Test coordination of one or many of the following Products: IBM MDM, IBM BPM, IBM IIS DataStage and QualityStage, IBM IIB-ESB, IBM ODM Standard and Advanced

Experience and Expertise of the Proposed Test Coordinator – Specialty in IBM products	
Name of proposed Resource:	
The Bidder SHOULD demonstrate that the Proposed Test Coordinator – Specialty in IBM products has:	

			BIDDER'S RESPONSE	
#	RATED CRITERIA	POINTS	DEMONSTRATED EXPERIENCE	INSERT PAGE # OF RESUME
R.1	In addition to M2, experience, working as a test coordinator, within the last ten (10) years, planning, scheduling, coordinating and reporting on the testing phase of a large scale (project value of \$6 million or greater) IBM Master Data Management (MDM)* solution and/or an IBM Enterprise Service Bus (ESB)* solution implementation at an enterprise level with multiple stakeholders (greater than 2) and multiple integration points.	15	<ul> <li>2+ to 3 years = 5 points</li> <li>3+ to 4 years = 10 points</li> <li>4+ years = 15 points</li> </ul>	

Experience and Expertise of the Proposed Test Coordinator – Specialty in IBM products	
Name of proposed Resource:	
The Bidder SHOULD demonstrate that the Proposed Test Coordinator – Specialty in IBM products has:	

			BIDDER'S RESPONSE	
#	RATED CRITERIA	POINTS	DEMONSTRATED EXPERIENCE	INSERT PAGE # OF RESUME
R.2	experience, within the last ten (10) years, working as a test coordinator to plan, schedule, and report on the functional and system integration testing of solutions that integrates at least two (2) of the following IBM components:   • IBM Operational Decision Manager (ODM)** Standard or Advanced  • IBM InfoSphere Identity Insight (ISII)**  • IBM Master Data Management (MDM)**  • IBM Integration Bus (IIB) – Enterprise Service Bus (ESB)**  • IBM Global Name Manager (GNM)  • IBM InfoSphere Information Server DataStage or QualityStage  • IBM Business Process Management (BPM)** Advanced	15	<ul> <li>2 to 3 years = 5 points</li> <li>3+ to 4 years = 10 points</li> <li>4+ years = 15 points</li> </ul>	
	*Or previous versions or instances.			

Experience and Expertise of the Proposed Test Coordinator – Specialty in IBM products	
Name of proposed Resource:	
The Bidder SHOULD demonstrate that the Proposed Test Coordinator – Specialty in IBM products has:	

			BIDDER'S RESPONSE	
#	RATED CRITERIA	POINTS	DEMONSTRATED EXPERIENCE	INSERT PAGE #
R.3	Experience, within the last ten (10) years, working as a test coordinator on projects that required the integration and testing of components aligned with a SOA and/or MDM for a government* client.  *Government may include the Federal, Provincial or Municipal Government. The Government of Canada includes any department, agency, board of the Government of Canada or a Crown corporation.	5	<ul> <li>1 to 2 years = 1 points</li> <li>2+ to 3 years = 3 points</li> <li>3+ years = 5 points</li> </ul>	
	Maximum available points	35		
	Minimum points required	21		

#### 2.18 Technology Architect – Specialty in IBM Integration Bus (IIB) – Enterprise Service Bus (ESB) Configuration/Release Management

Experience and Expertise of the Proposed Technology Architect - Specialty in IBM Integration Bus (IIB) – Enterprise Service Bus (ESB) Configuration/Release Management
Name of proposed Resource:
The Bidder SHOULD demonstrate that the Proposed Technology Architect - Specialty in IBM Integration Bus (IIB) – Enterprise Service Bus (ESB) Configuration/Release Management has:

		BIDDER'S RESI	PONSE	
#	RATED CRITERIA	POINTS	DEMONSTRATED EXPERIENCE	INSERT PAGE # OF RESUME
R.1	Experience within the last ten (10) years working as a technology architect working on the configuration, optimization and deployment of an IBM Integration Bus (IIB) - Enterprise Service Bus (ESB)* project solution implementation, aligned with a Service Oriented Architecture (SOA), in large scale projects (project value of \$6 million or greater) at an enterprise level with multiple stakeholders (greater than 2).  *Or previous versions or instances.	15	<ul> <li>3 to 4 years = 5 points</li> <li>4+ to 5 years = 10 points</li> <li>5+ years = 15 points</li> </ul>	

<b>Experience and Expertise of th</b>	he Proposed Technology Architect - Specialty in IBM	
Integration Bus (IIB) - Enterpr	ise Service Bus (ESB) Configuration/Release Managem	ient

Name	of	proposed	Resource:	
------	----	----------	-----------	--

The Bidder SHOULD demonstrate that the Proposed Technology Architect - Specialty in IBM Integration Bus (IIB) – Enterprise Service Bus (ESB) Configuration/Release Management has:

			BIDDER'S RES	PONSE
#	RATED CRITERIA	POINTS	DEMONSTRATED EXPERIENCE	INSERT PAGE # OF RESUME
R.2	Experience, within the last ten (10) years, as a technology architect performing the integration of IBM Integration Bus (IIB) - IBM Enterprise Service Bus (ESB)* with the IBM Business Process Management (BPM)* Advanced IBM product and one or more of the following IBM products:  • IBM Operational Decision Manager (ODM)* Standard or Advanced • IBM InfoSphere Identity Insight (ISII)* • IBM Master Data Management(MDM)* • IBM Global Name Manager (GNM) • IBM InfoSphere Information Server DataStage or QualityStage	15	<ul> <li>1 to 2 years = 5 points</li> <li>2+ to 3 years = 10 points</li> <li>3+ years = 15 points</li> </ul>	
R.3	Experience, within the last ten (10) years, working as a technology architect on projects with an MDM component for a government* client.  *Government may include the Federal, Provincial or Municipal Government. The Government of Canada includes any department, agency, board of the Government of Canada or a Crown corporation.	5	<ul> <li>1 to 2 years = 1 points</li> <li>2+ to 3 years = 3 points</li> <li>3+ years = 5 points</li> </ul>	
	Maximum available points	35		
	Minimum points required	21		

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Government of Canada Gouvernement du Canada

Contract Number / Numéro du contral	
1000322116 / 47060.	152116
Security Classification / Classification de sécurité	

SECURITY REQUIREMENTS CHECK LIST (SRCL)

LISTE DE VÉRIFIO PART A - CONTRACT INFORMATION / PARTIE A	CATION DES EXIGENCES	RELATIVES À LA SI	ÉCURITÉ (LVERS)	
1. Originating Government Department or Organizati			or Directorate / Direction géné	rale ou Direction
Ministère ou organisme gouvernemental d'origine	CBSA	EAIM/C		
3. a) Subcontract Number / Numéro du contrat de so			ntractor / Nom et adresse du s	ous-traitant
4. Brief Description of Work / Brève description du tr	avail			
Standing offer for the provision of Task Based information		ernment of Canada	,	
Clairanth Cuest for the Superposit of Lague Appears and Comment	~ 14.64844100 April 40 m m m m m m m m m m m m m m m m m m	AND A STATE OF THE		
. ,				
5, a) Will the supplier require access to Controlled G	oods?			V No DY
Le fournisseur aura-t-il accès à des marchandis		a Branchistana of the T	Abriani Cota Cantrai	Non L C
b) Will the supplier require access to unclassified Regulations?	military technical data subject t	O the broxisions or the 14	sumuai vata currui	✓ Non L
Le fournisseur aura-t-il accès à des données te	chniques militaires non classifi	ées qui sont assujetties a	aux dispositions du Règlemen	
sur le contrôle des données lechniques?				
<ol><li>Indicate the type of access required / Indiquer let</li></ol>				
6, a) Will the supplier and its employees require according	ess to PROTECTED and/or CL	ASSIFIED information or	assets?	No 7
Le fournisseur ainsi que les employés auront-li	s accès à des renseignements	ou a des biens PROTEG	ES et/ou CLASSIFIES?	Non Y
(Specify the level of access using the chart in C (Préciser le niveau d'accès en utilisant le tables	luestion 7, c) vi nui se trouve à la nuestion 7	. c)		
6. b) Will the supplier and its employees (e.g. cleane	rs, maintenance personnel) red	quire access to restricted	access areas? No access to	7 No 1
PROTECTED and/or CLASSIFIED information	or assets is permitted.			V Non L □
Le foumisseur et ses employés (p. ex. nettoyet	ırs, personnel d'entretien) auro	nt-its accès à des zones	d'accès restreintes? L'accès	
à des renseignements ou à des biens PROTÉC 6. c) Is this a commercial courier or delivery requirer	bES eVou CLASSIFIES n'est pi	as autorise.		[7] NO [7]
S'agit-il d'un contrat de messagerie ou de livrai	nent wiin n <b>o</b> overnigist storage son commerciale <b>sans</b> entrepo	: sage de nuit?		Non L
7. a) Indicate the type of information that the supplie			on appeal to formice our days	aunir arcès
TO THE STATE OF TH				I
Canada 🗸	NATO / OTAN		Foreign / Étrange	
7, b) Release restrictions / Restrictions relatives à la	diffusion			
No release restrictions	All NATO countries Tous les pays de l'OTAN		No release restrictions Aucune restriction relative	
Aucune restriction relative	Tous les pays de 101AA		à la diffusion	L
C to Midwig.				
Not releasable				
A ne pas diffuser				quareneg
Restricted to: / Limité à :	Restricted to: / Limité à :		Restricted to: / Limité à :	
	Specify country(ies): / Précis	-aria/a\aave	Specify country(les): / Préci	certe/st nave :
Specify country(ies): / Préciser le(s) pays :	Specify country(les). / Freus	sei ic(s) pays.	openy wantyney, i ivo	our sujar parja .
7. c) Level of information / Niveau d'information		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
PROTECTED A	NATO UNCLASSIFIED		PROTECTED A	
PROTÉGÉ A	NATO NON CLASSIFIÉ		PROTÉGÈ A	
PROTECTED B	NATO RESTRICTED		PROTECTED 8	
PROTÉGÉ B	NATO DIFFUSION RESTRI	EINTE L	PROTÉGÉ B	
PROTECTED C	NATO CONFIDENTIAL		PROTECTED C	
PROTÉGÉ C	NATO CONFIDENTIEL		PROTEGÉ C	
CONFIDENTIAL	NATO SECRET		CONFIDENTIAL CONFIDENTIEL	
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TRÉS SECRET (SIGINT)			TRES SECRET (SIGINT)	

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concennege	Contract Number / Numéro du contrat	
	Security Classification / Classification de sécurité	

8. Will the sup Le fournisse If Yes, indic Cans l'affirn 9. Will the sup	inued) I PARTIE A (suite) plier require access to PROTECTED pur aura-t-ti accès à des renseignement ate the level of sensitivity: native, indiquer le niveau de sensibili plier require access to extremely ser aura-t-ti accès à des renseignem	ents ou à des blens COMSEC dé té : native INFOSEC information or as	signés PROTÈGÉS et/ou CLA ssets?		V No Yes Oul
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	s) of material / Titre(s) abrégé(s) du r Number / Numéro du document :	natériel :			
	SONNEL (SUPPLIER) / PARTIE B lel security screening level required /				A CONTRACTOR AND A
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	SITE ACCESS ACCÉS AUX EMPLACEMENTS				
	Special comments: Commentaires spéciaux :		-		••••
	NOTE: If multiple levels of screenin REMARQUE: SI plusieurs niveau:			de la sécurité doit êtr	e foumi
Du pers If Yes, v Dans l'a	screened personnel be used for portionnel sans autorisation sécuritaire puil unscreened personnel be escorte iffirmative, le personnel en question EGUARDS (SUPPLIER) / PARTIE	eut-il se voir confler des parties d d? sera-t-il escorté?		٠	No Non Oui  No Non Oui  No Yes  No Yes  Oui
·	PEGUARUS (SUPPLIER) PARTIE ON / ASSETS / RENSEIGNEME		N (FOURNISSEUR)		
premise	nisseur sera-t-il tenu de recevoir et d				No Yes
	supplier be required to safeguard C hisseur sera-t-il tenu de protèger des		OMSEC?		No Yes
PRODUCTION	DN				
occur al Les inst	production (manufacture, and/or repair the supplier's site or premises? allations du fournisseur serviront-elles LASSIFIÉ?	·			No Yes Non Oui
INFORMATION	ON TECHNOLOGY (IT) MEDIA /	SUPPORT RELATIF À LA TECHN	OLOGIE DE L'INFORMATION	(TI)	
informa Le fourr	supplier be required to use its IT syste tion or data? hisseur sera-t-il tenu d'utiliser ses prop nements ou des données PROTÉGÉS	res systèmes informatiques pour tr			✓ Non Yes Non Oui
Dispose	e be an electronic link between the su tra-t-on d'un lien électronique entre le nementale?	pplier's IT systems and the govern systeme informatique du fournisse	ment department or agency? ur et celui du ministère ou de l'a	gence	V Non Yes
TBS/SCT 38	50-103(2004/12)	Security Classification / Classification	ssification de sécurité		

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Gouvernement du Canada Contract Number / Numéro du contrat

Security Classification / Classification de sécurité

niveaux de sauve For users comple Dans le cas des i dans le tableau re	eting utilis	the	form	online (via ti	ne Interne Lie formuli	t), the sur aire <b>en H</b> ç	nmary chart ine (par inter		nses aux	questions						aisies												
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	200	0	3	CONFIDENTIAL	325,461	TRES SEGRET	NATO DIFFUSION RESTRENTE	NATO CONFIDENTIEL	acces:	SECHET COSMIC TRES SECRET	A	8	С	CONFIDENTIEL	Jesne!	TAES SECRET												
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Security Classification / Classification de sécurité

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Government of Canada Gouvernement du Canada

Contract	Number	/ Numero	du c	ontrat	***************************************	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	×
mito Class	ification /	Classifics	Hion	Hex oder	i wita		~-

PART D - AUTHORIZATION / PART			the state of the s				
<ol><li>Organization Project Authority / C</li></ol>	hargé de projet de l'org	janisme				$=G\cdot D_{\alpha}$	
Name (print) - Nom (en lettres moulées)		Title - Titre		Signalure		CIPEL	1
Hien Kien Tsang		A/Director		de !	X/ 29	A	
Telephone No N° de téléphone	Facsimile No N° de	télécopieur	E-mail address - Adresse cour	riel	Osle A	65-2N	
14. Organization Security Authority /	Responsable de la séc	urité de l'orgar	isme		1-1	X	
Name (print) - Nom (en lettres moulées)		Title - Titre		Signature			
AHMED SALAH		Securi	th speciacist	en agent around a de la constant de	5.	elp	
Telephone No.・N° de léléphone 343-251-33-1	Facsimile No N° de	,	E-mail address - Adresse coul	miel	Date Self	6/8/17	
<ol> <li>Are there additional instructions ( Des instructions supplémentaires</li> </ol>				t-elles jointes	?	L Non L	Yes J Oui
16. Procurement Officer / Agent d'ap	provisionnement		erregeger-egengegegenessensegenessegenessensenskildensekensensenskildensekensensenskildensekensenselder/dense	////			
Name (print) - Nom (en lettres moulées)		Title - Titre		Signature			
Telephone No N° de téléphone	Facsimile No N° de	lélécopieur	E-mail address - Adresse co	uniel	Date		
17. Contracting Security Authority / A	utorité contractante en	malière de sé	curité		L	***************************************	
Name (print) - Nom (en lettres moulées)		Title - Titre		Signature			
Telephone No N° de téléphone	Facsimile No N° de	L Lélécopieur	E-mail address - Adresse co	urriel	Date	"приме фоторови" Линия (т. т. т	

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Public Works and Government Services Canada Travaux publics et Services gouvernementaux Canada

Purchasing Office - Bureau des achats:

Informatics Professional Services - EL

Division/Services professionnels en informatique - division EL

4C2, Place du Portage

Gatineau

Québec

K1A 0S5

#### CONTRACT AMENDMENT MODIFICATION AU CONTRAT

The referenced document is hereby amended: unless otherwise indicated, all other terms and conditions of the contract remain the same.

Ce document est par la présente modifié: sauf indication contraire, les modalités du contrat demeurent les mêmes.

The Vendor/Firm hereby accepts/acknowledges this amendment

Le fournisseur/entrepreneur accepte la présente modification/en accusé réception.

Signature

Date

Name, title of person authorized to sign (type or print) Nom et titre du signataire autorisé (taper ou imprimer)

Return signed copy forthwith Prière de retourner une copie dûment signée immédiatement

Comments - Commentaires

Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur

102444452PG0013 IBM CANADA LIMITED/IBM CANADA LIMITÉE 3755 Riverside Drive

Ottawa Ontario K1G4K9 Canada

•					
Title - Sujet RFP· Resource & Solution Bas	ed				
Contract No N° du contrat 47060-152116/001/EL		Amen 001	endment No N° Modif		
Client Reference No N° de ré 1000322116	ent	<b>Date</b> 2017-	9 7-07-11		
Requisition Reference No N° 47060-152116	de la demand	e			
File No N° de dossier	CCC No./Nº.C	CC - FMS	No./N	I° VME	
615el.47060-152116				· · ···-	
Financial Codes				GST/HST	
Code(s) financier(s)				TPS/TVH	
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	Duty - Droits	7-1	1	•	
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Destination - des biens, servic CANADA BORDER SERVICI					
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Invoices - Original and two cop					
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Canada Border Service Agency Agence des services frontaliers					
vendors-fournisseurs@cbsa-as:		rred)			
(National Invoice Reception Un	•	,			
105 Rue McGill #250-01					
Montreal Quebec H2Y 2E7					
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Ghaddab, Nabil				615el	
Telephone No N° de téléphone		FAX No.	- N° de	FAX	
(973) 469-4984 ( )					
Increase (Decrease) - Augmentation (Diminution)					
\$0.00				*	
Revised estimated cost		Currency Type - Genre de devise			
Coût révisé estimatif		CAD			



For the Minister - Pour le Ministre

This Contract Amendment is raised to modify the Annex C - Security Requirements Check List (SRCL) form and replace it with a fully signed one by all parties.

#### 1. Modification to the Annex C - Security Requirements Check List (SRCL) form of the Contract, as follows:

DELETE

Annex C - Security Requirements Check List (SRCL) form, in its entirety; and

**REPLACE** 

with the following:

(see the next page)

ALL OTHER TERMS AND CONDITIONS OF THE CONTRACT REMAIN THE SAME

#### COMMON-PS-SRCL#19



Government of Canada

Gouvernement du Canada Contract Number / Number du contrat
47060-152166/001/EL
Security Classification / Classification de socurité
UNCLASSIFIED

SECURITY REQUIREMENTS CHECK LIST (SRCL) LISTE DE VERIFICATION DES EXIGENCES RELATIVES À LA SECURITÉ (LVERS) PART A - CONTRACT INFORMATION / PARTIE A - INFORMATION CONTRACTUELLE 2. Branch or Oirectorate / Direction générale ou Direction Originating Government Department or Organization / Ministère ou organisme gouvernemental d'origine: SPMMO
3 b) Name and Address of Subcontractor / Nom et adresse du seus traitant 3. a) Subcontract Number / Numero du contrat de sous-traitance 4. Brief Description of Work / Breve description du travail 5. a) Will the supplier require access to Controlled Goods? ✓ Non Le fournisseur aura-t-il accès à des marchandises contrôlèns? Öili b) Will the supplier require access to unclassified military technical data subject to the provisions of the Technical Data Control No Yes √ | Non Regulations? La fountisseur qua-Litacces a des données lechniques mititalies non classifiées qui sont assifictios aux dispositions du Réglement sur le contrôle des données techniques? Indicate the type of access required a Indiquer le type d'accès requis 6, a) Will the supplier and its employees require access to PROTECTED and/or CLASSIFIED information or ussats?

Le tournisceur amsi que les employée auront-its accès à des rénseignements ou à des blens PROTÈGES altou CLASSIFIÈS? Yes 1 Non (Specify the level of access using the chart in Question 7. c) (Précisor le niveau d'acces en uluisant le tableau qui se trouve à la question 7, c) 6 b) Will the supplier and its employees (e.g. cleaners, mantenance personnel) require access to restricted access areas? No access to PROTECTED and/or CLASSIFIED information or assets is permitted. No 1 Yes Le leurnisseur et ses employés (n. ex. nettoyeurs, personnet d'enfretient auront-ils accès à des zones d'accès restreintes? L'accès a des renseignements ou à des bieos PROTEGES cirou CLASSIFIES n'est pas autorisé.

5. et ls this à commercial courier or delivery requirement with no overnight storage? √ Non S'agil-il d'un contrat de messagene ou de livraison commerciale sans entreposage de nuit? Ou 7. a) Indicate the type of information that the supplier will be required to access / Indiquer to type d'information august le fournissour devra avoir accès Canada 🗸 NATO / OTAN Foreign / Étranger 7 b) Release residctions / Restrictions relatives à la diffusion All NATO countries No release restrictions No release restrictions Aucuna restriction relative à la diffusion Tous les pays de l'OTAN Aucune restriction relative a la diffusion Not releasable À ne pas diffuser Restricted to: / Limité à Restricted to / Limile a Restricted to / Limité à : Specify country(ies): / Preciser lets) pays Specify country(ies). I Presider lets) pays Specify country(ins): / Préciser lets) pays 7. c) Level of information / Miveau d'information PROTECTED:A NATO UNCLASSIFIED PROTECTED A 1 NATO NON CLASSIFIE PROTEGÉ A PROTÉGÉ A PROTECTED B NATO RESTRICTED PROTECTED B 1 PROTÉGÉ B NATO DIFFUSION RESTREINTE PROTEGE B NATO CONFIDENTIAL PROTECTED C PROTECTED C 1 NATO CONFIDENTIEL PROTEGE C PROTÈGE C CONFIDENTIAL NATO SECRET. CONFIDENTIAL CONFIDENTIE NATO SECRET CONFIDENTIEL COSMIC TOP SECRET SECRET SECRET SECRET COSMIC TRES SECRET SECRET TOP SECRET TOP SECRET TRES SECRET TRES SECRET TOP SECRET (SIGINT) TOP SECRET (SIGNE) TRES SECRET (SIGN) TRES SECRET (SIGINT)

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Security Classification / Classification de sécurité
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#### COMMON-PS-SRCL#19



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Discose		er's 17 systems and the government department or agency? . eme informatique du formisseur et calci du m≣nistère òu de t'agence	No Yes
Le four	ion or data?	to electronically process, profuce or store PROTECTED and/or CLASSIFIED systemes informaliques pour trailer, produire ou stocker electroniquement des ou CLASSIFIES?	Non Yes
el/ou Ct	ASSIFIÉ?	PORT RELATIF À LA TECHNOLOGIE DE L'INFORMATION (TI)	
occur at	the supplier's site or premises?	for modification of PROTECTED and/or CLASSIFIED material or equipment	Non Yes
PRODUCTIO	ود عربي سنو دو آد سند آدار <del>استديد</del> دور بوسور ا	And the state of t	on a section that a completely when a continuous decisions
	supplier be required to saleguard COM:		Non Yes
11 a) Will the	supplier be required to receive and stori s? isseur sera-f-il tonn up recevoir et d'entr	e PROTECTED and/or CLASSIFIED information or assets on its site or reposer sur place dos renseignements ou des biens PROTEGES et/ou	Mo. Yes
	EGUAROS (SUPPLIER) / PARTIE C - ON / ASSETS / RENSEIGNEMENTS	MESURES DE PROTECTION (FOURNISSEUR)	
Do pers	NOTE: If multiple levels of screening ar REMARQUE. Si plusieurs nivéaux de creened personnel be used for portions oncel sans autonsation securitaire peut- all unscreened personnel be asconted? Iffirmativa: le personnel on question sera	Il se voir confier des parties du travail?	fourni.    No Yes   Non Out     No Yes   Non Out     No Yes   Out     Non Out
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	SITE ACCESS ACCES AUX EMPLACEMENTS	and statement of a supplier of the supplier of	Essens administrations
	TOP SECRET SIGNT		iret fop secret ires secret
i V	RELIABILITY STATUS	eau de contrôle de la sécurité du personnet requis  CONCIDENTIAL SECRET TOP SEC	
Document N	lumber / Numero du document : BONNEL (SUPPLIER) / PARTIE BP.	ERSONNEL (FOURNISSEUR)	
Le fountsse		inn a des biens INFOSEC do nature extrémement délicate?	Non Yas
If Yes, indic Dans l'allen	na america access do actempos accessival palive, indiquei to nivepu de sensibilità : pher require access to extremely sensibi		
.0. Will the supp		d/or CLASSIFIED COMSEC Information or assets? ⊦ou à des bians COMSEC désignés PROTÈGES gl/ou CLASSIFIÉS?	✓ No Yes

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Government of Canada Gouvernement du Canada Contract Number / Numéro du contrat

Security Classification / Classification de sécurite

UNCLASSIFIED

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đaka j	+-	-	-			*					+		-		-
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Security Classification / Classification de sécurité
UNCLASSIFIED

Canad'ä

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Government of Canada Gouvernement du Canada Contract Number / Humèro du contrat

Security Classification / Classification de sécurite

UNICLASSIFIED

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16 Procurement Officer / Agent d ap	provisionnement					
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Contract Security Officer
Contract Security Division|Division des contrats securite /
Contract Security Program|Programme de sécurité des contrats /
Contract Services and Procurement Canada/ Services publics et Approvisionnement Canada
Jacques Saumur@pisgc.pwgsc.gc.ct
Tetephone | Téléphone 613-946-1792
Facsumite | Télécopieur 613-943-1712

TBS/SCT 556-100(2004/12)

Security Classification / Classification de sécurité
UNCLASSIFIED

Canadä'



Public Works and Government Services Canada

Travaux publics et Services gouvernementaux Canada

Purchasing Office - Bureau des achats:

Informatics Professional Services - EL

Division/Services professionnels en informatique division EL

4C2, Place du Portage

Gatineau

Ouébec

K1A 0S5

# CONTRACT AMENDMENT **MODIFICATION AU CONTRAT**

The referenced document is hereby amended: unless otherwise indicated, all other terms and conditions of the contract remain the same.

Ce document est par la présente modifié: sauf indication contraire, les modalités du contrat demeurent les mêmes.

The Vendor/Firm hereby accepts/acknowledges this amendment.

Le fournisseur/entrepreneur accepte la présente modification/en accusé réception.

Ald Konth

Carlos Santos, Authorized Signatory Dec 28, 2017 Signature

Name, title of person authorized to sign (type or print) Nom et titre du signataire autorisé (taper ou imprimer)

Return signed copy forthwith

Prière de retourner une copie dûment signée immédiatement

**Comments - Commentaires** 

Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur

102444452PG0013 IBM CANADA LIMITED/IBM CANADA LIMITÉE 3755 Riverside Drive

Ottawa Ontario K1G4K9 Canada

Title - Sujet RFP Resource & Solution Based Contract No. - Nº du contrat Amendment No. - Nº Modif 47060-152116/001/EL 002 Client Reference No. - N° de référence du client Date 1000322116 2017-12-20 Requisition Reference No. - N° de la demande 47060-152116 File No. - N° de dossier CCC No./N° CCC - FMS No./N° VME 639el.47060-152116 **Financial Codes** GST/HST TPS/TVH Code(s) financier(s) F.O.B. - F.A.B. Destination GST/HST - TPS/TVH **Duty - Droits** Included - Inclus See Herein - Voir ci-inclus Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: CANADA BORDER SERVICES AGENCY (CBSA) 330 North River Road, Ontario, K1A 0L8 Invoices - Original and two copies to be sent to: Factures - Envoyer l'original et deux copies à: Canada Border Service Agency Agence des services frontaliers du Canada vendors-fournisseurs@cbsa-asfc.gc.ca (Preferred) (National Invoice Reception Unit) 105 Rue McGill #250-01 Montreal Quebec H2Y 2E7 Address Enquiries to: - Adresser toutes questions à: Buyer Id - Id de l'acheteur 639el Villeneuve, Julie FAX No. - N° de FAX Telephone No. - N° de téléphone (819) 420-5967 ( ) ) Increase (Decrease) - Augmentation (Diminution) \$3,276,787.50 Revised estimated cost Currency Type - Genre de devise

CAD

For the Minister - Pour le Ministre

Coût révisé estimatif \$5,033,145,60

Contract No. - N° du contrat (or Solicitation No. - N° de l'invitation) 47060-152116/001/EL

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur

002

639el

This Contract Amendment No.002 is raised in order to Exercise Option Period:

- 1. Amend the Revised Estimated Cost;
- 2. Amend the Contract Period; and
- 3. Amend the Contracting Authority.
- 1. On the first page of the contract, under Revised Estimated Cost:

DELETE:

\$1,756,358.10

INSERT:

\$5,033,145.60

#### 2. At Article 6, under Contract Period:

DELETE:

Article 6 in its entirety

INSERT:

#### 6. **Contract Period**

- (a) Contract Period: The "Contract Period" is the entire period of time during which the Contractor is obliged to perform the Work, which includes:
  - (i) The "Initial Contract Period", which begins on the date the Contract is awarded and ends January 29, 2019.
  - (ii) The period during which the Contract is extended, if Canada chooses to exercise any option set out in the Contract.

## (b) Option to Extend the Contract:

- (i) The Contractor grants to Canada the irrevocable option to extend the term of the Contract by up to four additional one-year periods under the same terms and conditions. The Contractor agrees that, during the extended period of the Contract, it will be paid in accordance with the applicable provisions set out in the Basis of Payment.
- (ii) Canada may exercise this option at any time by sending a written notice to the Contractor before the expiry date of the Contract. The option may only be exercised by the Contracting Authority, and will be evidenced, for administrative purposes only, through a contract amendment.

#### 3. At Article 7 (a) of the Contract, under Contracting Authority:

**DELETE:** 

Part - Partie 2 of - de 2 / Page 1 of - de 2

Contract No. - N° du contrat

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur

(or Solicitation No. - N° de l'invitation)

47060-152116/001/EL

002

639el

Name:

Nabil Ghaddab

Supply Specialist

Public Works and Government Services Canada

Acquisitions Branch

Directorate:

Space, Innovation and informatics Projects Directorate

Address:

11 Laurier Street, Gatineau, Québec

Telephone:

873-469-4984

Email:

nabil.ghaddab@tpsgc-pwgsc.gc.ca

INSERT:

Name:

Julie Villeneuve

Supply Specialist

STAMS / ITSPD / EL Division

Public Works and Government Services Canada

Address:

11 Laurier Street, Portage III, 4C2,

Gatineau, QC K1A 0S5

Telephone:

(819) 420-5967

E-mail address: Julie.villeneuve3@tpsgc-pwgsc.gc.ca

ALL OTHER TERMS AND CONDITIONS OF THE CONTRACT REMAIN THE SAME.

Public Works and

Travaux publics et Government Services Services gouvernementaux
Canada Canada

Purchasing Office - Bureau des achats: Informatics Professional Services - EL Division/Services professionnels en informatique division EL 4C2, Place du Portage Gatiness

Ouébec KIA 085

## CONTRACT AMENDMENT **MODIFICATION AU CONTRAT**

otherwise indicated, all other terms and conditions of the contract remain the same.

Ce document est par la présente modifié: sauf indication contraire, les modalités du contrat demeurent les mêmes.

The Vendor/Firm hereby accepts/acknowledges this

Le fournisseurientreoreneur accepte la présente modification/en accusa reception

Witchall Carkman 29 Jan 19

Organization
Name, title of person authorized to sign (type or print) Nom et litre du signataire autorisé (taper ou imprimer)

Return signed copy forthwith Prière de retoumer une copie dûment signée immédiatement

Comments - Commentaires

Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur 102444452PG0013

IBM CANADA LIMITED/IBM CANADA LIMITÉE 3755 Riverside Drive

Ottown Ontario KIG4K9 Canada

Title - Sujet RFP Resource & Solution Based Contract No. - N° du contrat Amendment No. - Nº Modif 47060-152116/001/EL Client Reference No. - N° de référence du client Date 2019-01-24 1000322116 Requisition Reference No. - Nº de la demande 47060-152116 File No. - N° de dossier CCC No./N° CCC - FMS No./N° VME 639el.47060-152116 GST/HST **Financial Codes** Code(s) financier(s)

F.O.B. - F.A.B. Destination GST/HST - TPS/TVH Duty - Droits Included - Inclus See Herein - Voir ci-inclus

Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: CANADA BORDER SERVICES AGENCY (CBSA) 330 North River Road, Ontario, K1A 0L8

Invoices - Original and two copies to be sent to: Factures - Envoyer l'original et deux copies à: Canada Border Service Agency Agence des services frontaliers du Canada vendors-fournisseurs@cbsa-asfc.gc.ca (Preferred) (National Invoice Reception Unit) 105 Rue McGill #250-01 Montreal Quebec H2Y 2E7

Address Enquiries to: - Adresser toutes questions à: Buyer Id - Id de l'acheteur Villeneuve, Julie 639el Telephone No. - Nº de téléphone FAX No. - N° de FAX (613) 858-9487 ( ) Increase (Decrease) - Augmentation (Diminution) \$500,000.00 Revised estimated cost Currency Type - Genre de devise Coût révisé estimatif CAD \$5 533 145 60 For the Minister - Pour le Ministre

Villeneuve, Julie 3 Digitally signed by Villeneuve, Julie 3 Date: 2019.01.25 09:5546 05'00'



Contract No. - N° du contrat (or Solicitation No. - N° de l'invitation) 47060-152116/001/EL

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur

003

639el

This Contract Amendment No.003 is raised in order to Exercise Option Period:

1. Amend the Revised Estimated Cost: an

2. Amend the Contract Period.

#### 1. On the first page of the contract, under Revised Estimated Cost:

**DELETE:** \$5,033,145.60

INSERT: \$5,533,145.60

#### 2. At Article 6, under Contract Period:

**DELETE:** Article 6 in its entirety

INSERT:

#### **Contract Period** 6.

- (a) Contract Period: The "Contract Period" is the entire period of time during which the Contractor is obliged to perform the Work, which includes:
  - (i) The "Initial Contract Period", which begins on the date the Contract is awarded and ends January 29, 2020.
  - (ii) The period during which the Contract is extended, if Canada chooses to exercise any option set out in the Contract.

#### **Option to Extend the Contract:**

- (i) The Contractor grants to Canada the irrevocable option to extend the term of the Contract by up to three additional one-year periods under the same terms and conditions. The Contractor agrees that, during the extended period of the Contract, it will be paid in accordance with the applicable provisions set out in the Basis of Payment.
- (ii) Canada may exercise this option at any time by sending a written notice to the Contractor before the expiry date of the Contract. The option may only be exercised by the Contracting Authority, and will be evidenced, for administrative purposes only, through a contract amendment.

ALL OTHER TERMS AND CONDITIONS OF THE CONTRACT REMAIN THE SAME.



Public Works and Government Services Canada

Travaux publics et Services gouvernementaux Canada

Purchasing Office - Bureau des achats:

Informatics Professional Services - EL Division/Services professionnels en informatique division EL 4C2, Place du Portage

Gatineau Ouébec

K1A 0S5

CONTRACT	AMENI	OMENT	
MODIFICATI	ON AU	CONTR	AT

The referenced document is hereby amended: unless otherwise indicated, all other terms and conditions of the contract remain the same.

Ce document est par la présente modifié: sauf indication contraire, les modalités du contrat demeurent les mêmes.

The Vendor/Firm hereby accepts/acknowledges this amendment.

Le fournisseur/entrepreneur accepte la présente

modification/en accusé réception.

4. D. Gillia

Associate Partner Jan 82020

Signature Mélanie Gilbert Date

Namo tille of person authorized to sign (type or print)

Name, title of person authorized to sign (type or print) Nom et titre du signataire autorisé (taper ou imprimer)

Return signed copy forthwith Prière de retourner une copie dûment signée immédiatement

Comments - Commentaires

Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur

102444452PG0013 IBM CANADA LIMITED/IBM CANADA LIMITÉE 3755 Riverside Drive

Ottawa Ontario K1G4K9 Canada

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Title - Sujet				
RFP Resource & Solution Bas	ed			
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Included - Inclus	See Herein - \	oir ci-inc	lus	
CANADA BORDER SERVICI 330 North River Road, Ontario	o, K1A 0L8		,	
Invoices - Original and two constructions - Envoyer l'original et Canada Border Service Agency Agence des services frontaliers vendors-fournisseurs@cbsa-as: (National Invoice Reception U 105 Rue McGill #250-01 Montreal Quebec H2Y 2E7	et deux copies / s du Canada fc.gc.ca (Prefei	à:		,·
Address Enquiries to: - Adres	ser toutes qu	estions à	:	Buyer ld - ld de l'acheteur
Michaud, Daniel		******	3.10	641el
Telephone No N° de télépho	one	FAX No.	- N° de	e FAX
(613) 858-8483 ( )		( ) -	******************************	
Increase (Decrease) - Augment \$3,407,859.00	ntation (Dimin	ution)		
Revised estimated cost Coût révisé estimatif		Currenc	у Туре	- Genre de devise
\$8,941,004.60		CAD		



For the Minister - Pour le Ministre

Bastien, Josee

Contract No. - N° du contrat Amd. No. - N° de la modif. Buyer ID - Id de l'acheteur (or Solicitation No. - N° de l'invitation)

47060-152116/001/EL 004 641el

This Contract Amendment No.004 is raised in order to Exercise Option Period and change the Contracting Authority:

1. Amend the Revised Estimated Cost;

- 2. Amend the Contract Period; and
- 3. Amend the Contracting Authority.

# 1. On the first page of the contract, under Revised Estimated Cost:

DELETE: \$5,533,145.60

INSERT: \$8,941,004.60

# 2. At Article 6, under Contract Period:

DELETE: Article 6 in its entirety

**INSERT:** 

#### 6. Contract Period

- (a) Contract Period: The "Contract Period" is the entire period of time during which the Contractor is obliged to perform the Work, which includes:
  - (i) The "Initial Contract Period", which begins on the date the Contract is awarded and ends January 29, 2021.
  - (ii) The period during which the Contract is extended, if Canada chooses to exercise any option set out in the Contract.

# (b) Option to Extend the Contract:

- (i) The Contractor grants to Canada the irrevocable option to extend the term of the Contract by up to two (2) additional one-year periods under the same terms and conditions. The Contractor agrees that, during the extended period of the Contract, it will be paid in accordance with the applicable provisions set out in the Basis of Payment.
- (ii) Canada may exercise this option at any time by sending a written notice to the Contractor before the expiry date of the Contract. The option may only be exercised by the Contracting Authority, and will be evidenced, for administrative purposes only, through a contract amendment.

Amd. No. - N° de la modif. Contract No. - Nº du contrat

(or Solicitation No. - N° de l'invitation) 47060-152116/001/EL

004

Buyer ID - Id de l'acheteur

641el

#### At Article 7 (a) of the Contract, under Contracting Authority: 3.

## DELETE:

Name:

Julie Villeneuve

Supply Specialist

STAMS / ITSPD / EL Division

Public Works and Government Services Canada

Address:

11 Laurier Street, Portage III, 4C2,

Gatineau, OC K1A 0S5

Telephone:

(819) 420-5967

E-mail address: Julie.villeneuve3@tpsgc-pwgsc.gc.ca

# **INSERT:**

Name:

Daniel Michaud

Supply Specialist

STAMS / ITSPD / EL Division

Public Works and Government Services Canada

Address:

10 wellington, Gatineau, QC K1A 0S5

Telephone:

(613) 858-8483

E-mail address: daniel.michaud@tpsgc-pwgsc.gc.ca

ALL OTHER TERMS AND CONDITIONS OF THE CONTRACT REMAIN THE SAME.

Travaux publics et Services gouvernementaux Canada

# Purchasing Office - Bureau des achats:

Informatics Professional Services - EL
Division/Services professionnels en informatique
- division EL
4C2, Place du Portage
Gatineau
Ouébec

Québec K1A 0S5

# **CONTRACT - CONTRAT**

Your proposal is accepted to sell to Her Majesty the Queen in right of Canada, in accordance with the terms and conditions set out herein, referred to herein or attached hereto, the goods, services, and construction listed herein and on any attached sheets at the price or prices set out therefor.

Nous acceptons votre proposition de vendre à Sa Majesté la Reine du chef du Canada, aux conditions énoncées ou incluses par référence dans les présentes, et aux annexes ci-jointes, les biens, services et construction énumérés dans les présentes, et sur toute feuille ci-annexée, au(x) prix indiqué(s).

**Comments - Commentaires** 

Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur

868346149PG0001 DONNA CONA INC. 106 Colonnade. Suite 100 Ottawa Ontario K2E7L6 Canada

nentaux			
Title - Sujet Resource & Solution Based			
Contract No N° du contrat		Date	
47060-152116/002/EL		2017-02-24	
Client Reference No N° de 1000322116	référence du client	•	
Requisition No N° de la del 47060-152116	mande		
	CCC No./N° CCC - FMS No	o./N° VME	
615el.47060-152116			
Financial Code(s) Code(s) financier(s) 1911-100-10 20008576 2547	<sup>1</sup> /34201		GST/HST TPS/TVH
F.O.B F.A.B. Destination			
GST/HST - TPS/TVH	Duty - Droits		
Included - Inclus	See Herein - Voir ci-incl	us	
Destination - of Goods, Serv Destination - des biens, serv CANADA BORDER SERVI 330 North River Road, Ontar	rices et construction: CES AGENCY (CBSA) rio, K1A 0L8		
Invoices - Original and two of Factures - Envoyer l'original Canada Border Service Agen Agence des services frontalie vendors-fournisseurs@cbsa-a(National Invoice Reception 105 Rue McGill #250-01 Montreal Quebec H2Y 2E7	l et deux copies à: acy ers du Canada asfc.gc.ca (Preferred)		

Address Enquiries to: - Adresser toutes questions à:		
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FAX No N°	de FAX	
Currency Ty CAD	pe - Devise	
	FAX No N° ( ) - Currency Ty	



Page 1 of - de 1 000119

# CONTRACT AGAINST A SUPPLY ARRANGEMENT FOR TASK-BASED INFORMATICS PROFESSIONAL SERVICES (TBIPS)

# **FOR**

# VARIOUS RESOURCE CATEGORIES – LEVEL 3 (SEE HEREIN)

ON BEHALF OF

THE CANADA BORDER SERVICES AGENCY

# This document contains a security requirement

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# **List of Annexes to the Resulting Contract:**

- Annex A Statement of Work
  - Appendix A Non-Functional Requirements
  - Appendix B Acronyms
  - Appendix C Glossary
  - Appendix D Tasking Assessment Procedure
  - Appendix E Task Authorization (TA) Form
  - Appendix F Resources Assessment Criteria and Response Table
  - Appendix G Certifications at the TA Stage
- Annex B Basis of Payment
- Annex C Security Requirements Check List
   Annex D Non-Disclosure Agreement

# 1. Requirement

- (a) Donna Cona Inc. (the "Contractor") agrees to supply to the Client the services described in the Contract, including the Statement of Work, in accordance with, and at the prices set out in, the Contract. This includes providing professional services as and when requested by Canada, to one or more locations to be designated by Canada, excluding any locations in areas subject to any of the Comprehensive Land Claims Agreements.
- (b) Client: Under the Contract, the "Client" is Canada Border Services Agency (CBSA).
- (c) Reorganization of Client: The Contractor's obligation to perform the Work will not be affected by (and no additional fees will be payable as a result of) the renaming, reorganization, reconfiguration, or restructuring of any Client. The reorganization, reconfiguration and restructuring of the Client includes the privatization of the Client, its merger with another entity, or its dissolution, where that dissolution is followed by the creation of another entity or entities with mandates similar to the original Client. In connection with any form of reorganization, Canada may designate another department or government body as the Contracting Authority or Project Authority, as required to reflect the new roles and responsibilities associated with the reorganization.
- (d) **Defined Terms**: Words and expressions defined in the General Conditions or Supplemental General Conditions and used in the Contract have the meanings given to them in the General Conditions or Supplemental General Conditions. Any reference to an Identified User in the Supply Arrangement is a reference to the Client. Also, any reference to a "deliverable" or "deliverables" includes all documentation outlined in this Contract. A reference to a "local office" of the Contractor means an office having at least one full time employee that is not a shared resource working at that location.

#### 2. Task Authorization

- (a) As-and-when-requested Task Authorizations: The Work or a portion of the Work to be performed under the Contract will be on an "as-and-when-requested basis" using a Task Authorization (TA). The Work described in the TA must be in accordance with the scope of the Contract. The Contractor must not commence work until a validly issued TA has been issued by Canada and received by the Contractor. The Contractor acknowledges that any work performed before such issuance and receipt will be done at the Contractor's own risk.
- (b) **Assessment of Resources Proposed at TA Stage**: Processes for issuing, responding to and assessing Task Authorizations are further detailed in Appendices D, E, F and G of Annex A.
- (c) Form and Content of draft Task Authorization:
  - (i) The Project Authority will provide the Contractor with a description of the task in a draft Task Authorization using the form specified in Annex A.
  - (ii) The draft Task Authorization will contain the details of the activities to be performed, and must also contain the following information:
    - (A) the task number;
    - (B) The date by which the Contractor's response must be received (which will appear in the draft Task Authorization, but not the issued Task Authorization);
    - (C) the details of any financial coding to be used;
    - (D) the categories of resources and the number required;
    - a description of the work for the task outlining the activities to be performed and identifying any deliverables (such as reports);
    - (F) the start and completion dates;
    - (G) milestone dates for deliverables and payments (if applicable);

- (H) the number of person-days of effort required;
- (I) whether the work requires on-site activities and the location;
- (J) the language profile of the resources required;
- (K) the level of security clearance required of resources;
- (L) the price payable to the Contractor for performing the task under a maximum TA price (the TA must indicate how the final amount payable will be determined; where the TA does not indicate how the final amount payable will be determined, the amount payable is the amount, up to the maximum, that the Contractor demonstrates was actually worked on the project, by submitting time sheets filled in at the time of the work by the individual resources to support the charges); and
- (M) any other constraints that might affect the completion of the task.
- (d) Contractor's Response to Draft Task Authorization: The Contractor must provide to the Project Authority, within 3 working days of receiving the draft Task Authorization (or within any longer time period specified in the draft TA), the proposed total price for performing the task and a breakdown of that cost, established in accordance with the Basis of Payment specified in the Contract. The Contractor's quotation must be based on the rates set out in the Contract. The Contractor will not be paid for preparing or providing its response or for providing other information required to prepare and validly issue the TA.
- (e) Task Authorization Limit and Authorities for Validly Issuing Task Authorizations:

To be validly issued, a TA must include the following signatures:

- (i) for any TA, inclusive of revisions, with a value less than or equal to \$300,000.00 (excluding Applicable Taxes), the TA must be signed by the Project Authority; and
- (ii) for any TA, inclusive of revisions, with a value greater than this amount, a TA must include the following signatures:
  - (1) the Project Authority; and
  - (2) the Contracting Authority.

Any TA that does not bear the appropriate signature(s) is not validly issued by Canada. Any work performed by the Contractor without receiving a validly issued TA is done at the Contractor's own risk. If the Contractor receives a TA that is not appropriately signed, the Contractor must notify the Contracting Authority. By providing written notice to the Contractor, the Contracting Authority may suspend the Client's ability to issue TA's at any time, or reduce the dollar value threshold described in sub-article (i) above; any suspension or reduction notice is effective upon receipt.

#### (f) Periodic Usage Reports:

- (i) The Contractor must compile and maintain records on its provision of services to the federal government under Task Authorizations validly issued under the Contract. The Contractor must provide this data to Canada in accordance with the reporting requirements detailed below. If some data is not available, the reason must be indicated. If services are not provided during a given period, the Contractor must still provide a "NIL" report. The data must be submitted on a quarterly basis to the Contracting Authority. From time to time, the Contracting Authority may also require an interim report during a reporting period.
- (ii) The quarterly periods are defined as follows:
  - (A) 1st quarter: April 1 to June 30;
  - (B) 2<sup>nd</sup> quarter: July 1 to September 30;
  - (C) 3<sup>rd</sup> quarter: October 1 to December 31; and

(D) 4<sup>th</sup> quarter: January 1 to March 31.

The data must be submitted to the Contracting Authority no later than 15 calendar days after the end of the reporting period.

- (iii) Each report must contain the following information for each validly issued TA (as amended):
  - (A) the Task Authorization number and the Task Authorization Revision number(s), if applicable;
  - (B) a title or a brief description of each authorized task;
  - (C) the name, Resource category and level of each resource involved in performing the TA, as applicable;
  - (D) the total estimated cost specified in the validly issued TA of each task, exclusive of Applicable Taxes;
  - (E) the total amount, exclusive of Applicable Taxes, expended to date against each authorized task:
  - (F) the start and completion date for each authorized task; and
  - (G) the active status of each authorized task, as applicable (e.g., indicate whether work is in progress or if Canada has cancelled or suspended the TA, etc.).
- (g) Refusal of Task Authorizations or Submission of a Response which is not Valid: The Contractor is not required to submit a response to every draft TA sent to it by Canada. However, in addition to Canada's other rights to terminate the Contract, Canada may immediately, and without further notice, terminate the Contract for default in accordance with the General Conditions if the Contractor in at least three instances has either not responded or has not submitted a valid response when sent a draft TA. For greater clarity, each draft TA, which is identifiable by its task number, will only count as one instance. A valid response is one that is submitted within the required time period and meets all requirements of the draft TA issued, including proposing the required number of resources who each meet the minimum experience and other requirements of the categories identified in the draft TA at pricing not exceeding the rates set out in Annex B.
- (h) Consolidation of TA's for Administrative Purposes: The Contract may be amended from time to time to reflect all validly issued Task Authorizations to date, to document the Work performed under those TA's for administrative purposes.
- 3. Minimum Work Guarantee
- (a) In this clause,
  - "Maximum Contract Value" means the amount specified in the "Limitation of Expenditure" clause set out in the Contract (excluding Applicable Taxes); and
  - (ii) "Minimum Contract Value" means \$20,000.00.
- (b) Canada's obligation under the Contract is to request Work in the amount of the Minimum Contract Value or, at Canada's option, to pay the Contractor at the end of the Contract in accordance with sub-article (c), subject to sub-article (d). In consideration of such obligation, the Contractor agrees to stand in readiness throughout the Contract Period to perform the Work described in the Contract. Canada's maximum liability for work performed under the Contract must not exceed the Maximum Contract Value, unless an increase is authorized in writing by the Contracting Authority.
- (c) In the event that Canada does not request work in the amount of the Minimum Contract Value during the Contract Period, Canada must pay the Contractor the difference between the Minimum Contract Value and the total cost of the Work requested.

- (d) Canada will have no obligation to the Contractor under this article if Canada terminates the entire Contract
  - (i) for default;
  - (ii) for convenience as a result of any decision or recommendation of a tribunal or court that the contract be cancelled, re-tendered or awarded to another supplier; or
  - (iii) for convenience within ten business days of Contract award.

#### 4. Standard Clauses and Conditions

All clauses and conditions identified in the Contract by number, date and title are set out in the Standard Acquisition Clauses and Conditions Manual (https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual) issued by Public Works and Government Services Canada.

#### (a) General Conditions:

(i) 2035 (2016-04-04), General Conditions - Higher Complexity - Services, apply to and form part of the Contract.

With respect to Section 30 - Termination for Convenience, of General Conditions 2035, Subsection 04 is deleted and replaced with the following Subsections 04, 05 and 06:

- The total of the amounts, to which the Contractor is entitled to be paid under this section, together with any amounts paid, due or becoming due to the Contractor must not exceed the Contract Price.
- 5. Where the Contracting Authority terminates the entire Contract and the Articles of Agreement include a Minimum Work Guarantee, the total amount to be paid to the Contractor under the Contract will not exceed the greater of:
  - (a) the total amount the Contractor may be paid under this section, together with any amounts paid, becoming due other than payable under the Minimum Revenue Guarantee, or due to the Contractor as of the date of termination, or
  - (b) the amount payable under the Minimum Work Guarantee, less any amounts paid, due or otherwise becoming due to the Contractor as of the date of termination.
- 6. The Contractor will have no claim for damages, compensation, loss of profit, allowance arising out of any termination notice given by Canada under this section except to the extent that this section expressly provides. The Contractor agrees to repay immediately to Canada the portion of any advance payment that is unliquidated at the date of the termination.

# (b) Supplemental General Conditions:

The following Supplemental General Conditions:

- (i) 4002 (2010-08-16), Supplemental General Conditions Software Development or Modification Services;
- (ii) 4006 (2010-08-16), Supplemental General Conditions Contractor to Own Intellectual Property Rights in Foreground Information;

apply to and form part of the Contract.

#### 5. Security Requirement

- (a) The following security requirements apply to and form part of the Contract:
  - (i) The Contractor must, at all times during the performance of the Contract, hold a valid Facility Security Clearance at the level of SECRET, issued by the Canadian Industrial Security Directorate (CISD), Public Works and Government Services Canada (PWGSC).

- (ii) The Contractor personnel requiring access to PROTECTED/CLASSIFIED information, assets or sensitive work site(s) must EACH hold a valid personnel security screening at the level of **SECRET**, granted or approved by CISD/PWGSC.
- (iii) The Contractor MUST NOT remove any PROTECTED/CLASSIFIED information from the identified work site(s), and the Contractor must ensure that its personnel are made aware of and comply with this restriction.
- (iv) Subcontracts which contain security requirements are NOT to be awarded without the prior written permission of CISD/PWGSC.
- (v) The Contractor must comply with the provisions of the:
  - (A) Security Requirements Check List and security guide (if applicable), attached at Annex C;
  - (B) Industrial Security Manual (Latest Edition).
- (b) Additional Security Requirement
  - (i) The CBSA, will conduct its own personnel Reliability Status assessment the Contractor (specifically the Contractor personnel), which is allowed under the Treasury Board Secretariat of Canada's (TBS) "Security and Contracting Management Standard" and the Policy on Government Security – Personnel Security Standard. Reliability Status assessment conducted by the CBSA will include a credit check.
  - (ii) If the Contractor (specifically the Contractor personnel), has already been screened under the TBS Policy on Government Security - Personnel Security Standard, the Contractor (specifically the Contractor personnel), will still undergo a security screening process to be conducted by the CBSA.
  - (iii) The credit check and fingerprinting, if required, will be performed by an authorized security official with the CBSA's "Personnel Security Screening Section" (PSSS), which is independent of the Public Works and Government Services Canada's (PWGSC), "Canadian and International Industrial Security Directorate" (CIISD).
  - (iv) Until the credit check, fingerprinting (if required) and all other security screening processes required have been completed and the Contractor (specifically the Contractor personnel) is deemed suitable by the CBSA, the Contractor (specifically the Contractor personnel) will not be permitted access to Protected / Classified information or assets, and further, will not be permitted to enter sites where such information or assets are kept.
- (c) The Company Security Officer (CSO) must ensure through the Industrial Security Program (ISP) that the Contractor and individual(s) hold a valid security clearance at the required level.

#### 6. Contract Period

- (a) **Contract Period**: The "**Contract Period**" is the entire period of time during which the Contractor is obliged to perform the Work, which includes:
  - (i) The "**Initial Contract Period**", which begins on the date the Contract is awarded and ends one year later; and
  - (ii) The period during which the Contract is extended, if Canada chooses to exercise any options set out in the Contract.

#### (b) Option to Extend the Contract:

(i) The Contractor grants to Canada the irrevocable option to extend the term of the Contract by up to five additional one-year periods under the same terms and conditions.

The Contractor agrees that, during the extended period of the Contract, it will be paid in accordance with the applicable provisions set out in the Basis of Payment.

(ii) Canada may exercise this option at any time by sending a written notice to the Contractor before the expiry date of the Contract. The option may only be exercised by the Contracting Authority, and will be evidenced, for administrative purposes only, through a contract amendment.

#### 7. Authorities

#### (a) Contracting Authority

The Contracting Authority for the Contract is:

Name: Nabil Ghaddab Title: Supply Specialist

Public Works and Government Services Canada

Acquisitions Branch

Directorate: Space, Innovation, and Informatics Projects Directorate

Address: 11 Laurier St., Gatineau, Québec

Telephone: 873-469-4984

E-mail address: nabil.qhaddab@tpsqc-pwqsc.qc.ca

The Contracting Authority is responsible for the management of the Contract and any changes to the Contract must be authorized in writing by the Contracting Authority. The Contractor must not perform work in excess of or outside the scope of the Contract based on verbal or written requests or instructions from anybody other than the Contracting Authority.

## (b) Project Authority

The Project Authority for the Contract is:

Erin Lapensee

Telephone: 343-291-6223

Email: Erin.Lapensee@cbsa-asfc.gc.ca

Address: 355 North River Road, Tower B, 17th Floor, Ottawa, Ontario, K1A 0L8, Canada

The Project Authority is the representative of the department or agency for whom the Work is being carried out under the Contract and is responsible for all matters concerning the Project content of the Work under the Contract. Project matters may be discussed with the Project Authority; however, the Project Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of the Work can only be made through a contract amendment issued by the Contracting Authority.

In her absence, the Project Authority is:

Robert Penwarden

Telephone: 343-291-5669

Email: Robert.Penwarden@cbsa-asfc.gc.ca

Address: 355 North River Road, Tower B, 17th Floor, Ottawa, Ontario, K1A 0L8, Canada

OR

Matthew Woods

Telephone: 343-291-5726

Email: Matthew.Woods@cbsa-asfc.gc.ca

Address: 355 North River Road, Tower B, 17th Floor, Ottawa, Ontario, K1A 0L8, Canada

#### (c) Contractor's Representative

Name: Mark Coldham
Title: Account Executive
Organization: Donna Cona Inc

Address: 100-106 Colonnade Road, Ottawa ON, K2E 7L6

Telephone: (work) 613-234-5407

E-mail address: contracts@donnacona.com

#### 8. Proactive Disclosure of Contracts with Former Public Servants

By providing information on its status, with respect to being a former public servant in receipt of a <u>Public Service Superannuation Act</u> (PSSA) pension, the Contractor has agreed that this information will be reported on departmental web sites as part of the published proactive disclosure reports, in accordance with Contracting Policy Notice: 2012-2 of the Treasury Board Secretariat of Canada.

#### 9. Payment

#### (a) Basis of Payment

- (i) Professional Services provided under a Task Authorization with a Maximum Price: For professional services requested by Canada, in accordance with a validly issued Task Authorization, Canada will pay the Contractor, in arrears, up to the Maximum Price for the TA, for actual time worked and any resulting deliverables in accordance with the firm all-inclusive per diem rates set out in Annex B, Basis of Payment, Applicable Taxes extra. Partial days will be prorated based on actual hours worked based on a 7.5-hour workday.
- (ii) Travel and Living Expenses National Joint Council Travel Directive The Contractor will be reimbursed its authorized travel and living expenses reasonably and properly incurred in the performance of the Work, at cost, without any allowance for profit and/or administrative overhead, in accordance with the meal, private vehicle and incidental expenses provided in Appendices B, C and D of the National Joint Council Travel Directive and with the other provisions of the directive referring to "travellers", rather than those referring to "employees". All travel must have the prior authorization of the Contracting Authority. Travel requests will only be considered for a work location which is located more than 100 kilometers from the National Capital Region. The Contractor will be paid for actual time spent travelling at half the hourly rate. The hourly rate will be determined by dividing the firm per diem rate set out in Annex B by 7.5 hours. All payments are subject to government audit.
- (iii) Competitive Award: The Contractor acknowledges that the Contract has been awarded as a result of a competitive process. No additional charges will be allowed to compensate for errors, oversights, misconceptions or underestimates made by the Contractor when bidding for the Contract.
- (iv) Professional Services Rates: In Canada's experience, bidders from time to time propose rates at the time of bidding for one or more Resource Categories that they later refuse to honour, on the basis that these rates do not allow them to recover their own costs and/or make a profit. This denies Canada of the benefit of the awarded contract. If the Contractor does not respond or refuses to provide an individual with the qualifications described in the Contract within the time described in the Contract (or proposes instead to provide someone from an alternate category at a different rate), whether or not Canada terminates the Contract as a whole or in part or chooses to exercise any of the rights provided to it under the general conditions, Canada may impose sanctions or take other measures in accordance with the PWGSC Vendor Performance Corrective Measure Policy (or equivalent) then in effect, which measures may include an

assessment that results in conditions applied against the Contractor to be fulfilled before doing further business with Canada, or full debarment of the Contractor from bidding on future requirements.

## (b) Limitation of Expenditure – Cumulative Total of all Task Authorizations

- (i) Canada's total liability to the Contractor under the Contract for all validly issued Task Authorizations (TAs), inclusive of any revisions, must not exceed the amount set out on page 1 of the Contract, less any Applicable taxes. With respect to the amount set out on page 1 of the Contract, Customs duties are excluded and Applicable Taxes are included
- (ii) No increase in the total liability of Canada will be authorized or paid to the Contractor unless an increase has been approved, in writing, by the Contracting Authority.
- (iii) The Contractor must notify the Contracting Authority in writing as to the adequacy of this sum:
  - (A) when it is 75 percent committed, or
  - (B) 4 months before the contract expiry date, or
  - (C) As soon as the Contractor considers that the sum is inadequate for the completion of the Work required in all authorized TAs, inclusive of any revisions,

whichever comes first.

- (iv) If the notification is for inadequate contract funds, the Contractor must provide to the Contracting Authority a written estimate for the additional funds required. Providing this information does not increase Canada's liability.
- (c) **Method of Payment for Task Authorizations with a Maximum Price**: For each Task Authorization validly issued under the Contract that contains a maximum price:
  - (i) Canada will pay the Contractor no more frequently than once a month in accordance with the Basis of Payment. The Contractor must submit time sheets for each resource showing the days and hours worked to support the charges claimed in the invoice.
  - (ii) Once Canada has paid the maximum TA price, Canada will not be required to make any further payment, but the Contractor must complete all the work described in the TA, all of which is required to be performed for the maximum TA price. If the work described in the TA is completed in less time than anticipated, and the actual time worked (as supported by the time sheets) at the rates set out in the Contract is less than the maximum TA price, Canada is only required to pay for the time spent performing the work related to that TA.

## (d) Time Verification

Time charged and the accuracy of the Contractor's time recording system are subject to verification by Canada, before or after payment is made to the Contractor. If verification is done after payment, the Contract must repay any overpayment, at Canada's request.

## (e) Payment Credits

- (i) Failure to Provide Resource:
  - (A) If the Contractor does not provide a required professional services resource that has all the required qualifications within the time prescribed by the Contract, the Contractor must credit to Canada an amount equal to the per diem rate (based on a 7.5-hour workday) of the required resource for each day (or partial day) of delay in providing the resource, up to a maximum of 10 days.
  - (B) Corrective Measures: If credits are payable under this Article for two consecutive months or for three months in any 12-month period, the Contractor must submit a written action plan describing measures it will implement or actions

it will undertake to eliminate the recurrence of the problem. The Contractor will have five working days to deliver the action plan to the Client and the Contracting Authority and 20 working days to rectify the underlying problem.

- (C) **Termination for Failure to Meet Availability Level**: In addition to any other rights it has under the Contract, Canada may terminate the Contract for default in accordance with the General Conditions by giving the Contractor three months' written notice of its intent, if any of the following apply:
  - (1) the total amount of credits for a given monthly billing cycle reach a level of 10% of the total billing for that month; or
  - (2) the corrective measures required of the Contractor described above are not met.

This termination will be effective when the three month notice period expires, unless Canada determines that the Contractor has implemented the corrective measures to Canada's satisfaction during those three months.

- (ii) Credits Apply during Entire Contract Period: The Parties agree that the credits apply throughout the Contract Period.
- (iii) **Credits represent Liquidated Damages**: The Parties agree that the credits are liquidated damages and represent their best pre-estimate of the loss to Canada in the event of the applicable failure. No credit is intended to be, nor will it be construed as, a penalty.
- (iv) Canada's Right to Obtain Payment: The Parties agree that these credits are a liquidated debt. To collect the credits, Canada has the right to hold back, draw back, deduct or set off from and against any money Canada owes to the Contractor from time to time.
- (v) Canada's Rights & Remedies not Limited: The Parties agree that nothing in this Article limits any other rights or remedies to which Canada is entitled under the Contract (including the right to terminate the Contract for default) or under the law generally.
- (vi) Audit Rights: The Contractor's calculation of credits under the Contract is subject to verification by government audit, at the Contracting Authority's discretion, before or after payment is made to the Contractor. The Contractor must cooperate fully with Canada during the conduct of any audit by providing Canada with access to any records and systems that Canada considers necessary to ensure that all credits have been accurately credited to Canada in the Contractor's invoices. If an audit demonstrates that past invoices contained errors in the calculation of the credits, the Contractor must pay to Canada the amount the audit reveals was required to be credited to Canada, plus interest, from the date Canada remitted the excess payment until the date of the refund (the interest rate is the Bank of Canada's discount annual rate of interest in effect on the date the credit was first owed to Canada, plus 1.25% per year). If, as a result of conducting an audit, Canada determines that the Contractor's records or systems for identifying, calculating or recording the credits are inadequate, the Contractor must implement any additional measures required by the Contracting Authority.

## (f) No Responsibility to Pay for Work not performed due to Closure of Government Offices

- (i) Where the Contractor, its employees, subcontractors, or agents are providing services on government premises under the Contract and those premises are inaccessible because of the evacuation or closure of government offices, and as a result no work is performed, Canada is not responsible for paying the Contractor for work that otherwise would have been performed if there had been no evacuation or closure.
- (ii) If, as a result of any strike or lock-out, the Contractor or its employees, subcontractors or agents cannot obtain access to government premises and, as a result, no work is performed, Canada is not responsible for paying the Contractor for work that otherwise

would have been performed if the Contractor had been able to gain access to the premises

#### 10. Invoicing Instructions

- (a) The Contractor must submit invoices in accordance with the information required in the General Conditions.
- (b) The Contractor's invoice must include a separate line item for each subparagraph in the Basis of Payment provision, and must show all applicable Task Authorization numbers.
- (c) By submitting invoices, the Contractor is certifying that the goods and services have been delivered and that all charges are in accordance with the Basis of Payment provision of the Contract, including any charges for work performed by subcontractors.
- (d) The Contractor must provide the original to CBSA National Invoice Receiving Unit (<u>Vendors-Fournisseurs@cbsa-asfc.gc.ca</u>) for processing, and a copy to the Contracting Authority.

#### 11. Certifications

The continuous compliance with the certifications provided by the Contractor in its bid, any TA quotation and the ongoing cooperation in providing additional information are conditions of the Contract. Certifications are subject to verification by Canada during the entire Contract Period. If the Contractor does not comply with any certification, or fails to provide the additional information, or if it is determined that any certification made by the Contractor in its bid is untrue, whether made knowingly or unknowingly, Canada has the right, pursuant to the default provision of the Contract, to terminate the Contract for default.

## 12. Federal Contractors Program for Employment Equity - Default by Contractor

The Contractor understands and agrees that, when an Agreement to Implement Employment Equity (AIEE) exists between the Contractor and Employment and Social Development Canada (ESDC)-Labour, the AIEE must remain valid during the entire period of the Contract. If the AIEE becomes invalid, the name of the Contractor will be added to the "FCP Limited Eligibility to Bid" list. The imposition of such a sanction by ESDC will constitute the Contractor in default as per the terms of the Contract.

#### 13. Copyright In Material

- (a) In this section, "Material" means anything that is created by the Contractor as part of the Work under the Contract that is required by the Contract to be delivered to Canada and in which copyright subsists, excluding any computer software code and all documentation manuals or guides intended to assist end users or technicians in respect of that code. "Material" does not include anything created by the Contractor before the award date of the Contract.
- (b) Copyright in the Material belongs to Canada and the Contractor must include the copyright symbol and either of the following notice on the Material: © Her Majesty the Queen in right of Canada (year) or © Sa Majesté la Reine du chef du Canada (année).
- (c) The Contractor must not use, copy, divulge or publish any Material except as is necessary to perform the Contract. The Contractor must execute any conveyance and other documents relating to copyright in the Material as Canada may require.
- (d) The Contractor must provide at the request of Canada a written permanent waiver of moral rights, in a form acceptable to Canada, from every author that contributed to the Material. If the Contractor is the author of the Material, the Contractor permanently waives its moral rights in the Material.

#### 14. Applicable Laws

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Ontario.

# 15. Priority of Documents

If there is a discrepancy between the wording of any documents that appear on the following list, the wording of the document that first appears on the list has priority over the wording of any document that appears later on the list:

- (a) these Articles of Agreement, including any individual SACC clauses incorporated by reference in these Articles of Agreement;
- (b) Supplemental General Conditions, in the following order:
  - 4002 (2010-08-16), Supplemental General Conditions Software Development or Modification Services:
  - (ii) 4006 (2010-08-16), Supplemental General Conditions Contractor to Own Intellectual Property Rights in Foreground Information;
- (c) General Conditions 2035 (2016-04-04), Higher Complexity Services;
- (d) Annex A, Statement of Work Annex A including its Appendices as follows;
  - (i) Appendix D to Annex A Tasking Assessment Procedure;
  - (ii) Appendix E to Annex A Task Authorization (TA) Form;
  - (iii) Appendix F to Annex A Resource Assessment Criteria and Response Table;
  - (iv) Appendix G to Annex A Certifications at the TA stage;
- (e) Annex B, Basis of Payment;
- (f) Annex C, Security Requirements Check List;
- (g) Annex D; Non-Disclosure Agreement;
- the validly issued Task Authorizations and any required certifications (including all of their annexes, if any); and
- (i) the Contractor's bid dated November 7, 2016.

#### 16. Foreign Nationals (Canadian Contractor)

(a) SACC Manual clause A2000C (2006-06-16) Foreign Nationals (Canadian Contractor)

## 17. Insurance Requirements

## (a) Compliance with Insurance Requirements

- (i) The Contractor must comply with the insurance requirements specified in this Article. The Contractor must maintain the required insurance coverage for the duration of the Contract. Compliance with the insurance requirements does not release the Contractor from or reduce its liability under the Contract.
- (ii) The Contractor is responsible for deciding if additional insurance coverage is necessary to fulfill its obligation under the Contract and to ensure compliance with any applicable law. Any additional insurance coverage is at the Contractor's expense, and for its own benefit and protection.
- (iii) The Contractor should forward to the Contracting Authority within ten (10) days after the date of award of the Contract a Certificate of Insurance evidencing the insurance coverage. Coverage must be placed with an Insurer licensed to carry out business in Canada and the Certificate of Insurance must confirm that the insurance policy complying with the requirements is in force. If the Certificate of Insurance has not been completed and submitted as requested, the Contracting Authority will so inform the Contractor and

provide the Contractor with a time frame within which to meet the requirement. Failure to comply with the request of the Contracting Authority and meet the requirement within the time period will constitute a default under the General Conditions. The Contractor must, if requested by the Contracting Authority, forward to Canada a certified true copy of all applicable insurance policies.

## (b) Commercial General Liability Insurance

- (i) The Contractor must obtain Commercial General Liability Insurance, and maintain it in force throughout the duration of the Contract, in an amount usual for a contract of this nature, but for not less than \$2,000,000 per accident or occurrence and in the annual aggregate.
- (ii) The Commercial General Liability policy must include the following:
  - (A) Additional Insured: Canada is added as an additional insured, but only with respect to liability arising out of the Contractor's performance of the Contract. The interest of Canada should read as follows: Canada, as represented by Public Works and Government Services Canada.
  - (B) Bodily Injury and Property Damage to third parties arising out of the operations of the Contractor.
  - (C) Products and Completed Operations: Coverage for bodily injury or property damage arising out of goods or products manufactured, sold, handled, or distributed by the Contractor and/or arising out of operations that have been completed by the Contractor.
  - (D) Personal Injury: While not limited to, the coverage must include Violation of Privacy, Libel and Slander, False Arrest, Detention or Imprisonment and Defamation of Character.
  - (E) Cross Liability/Separation of Insureds: Without increasing the limit of liability, the policy must protect all insured parties to the full extent of coverage provided. Further, the policy must apply to each Insured in the same manner and to the same extent as if a separate policy had been issued to each.
  - (F) Blanket Contractual Liability: The policy must, on a blanket basis or by specific reference to the Contract, extend to assumed liabilities with respect to contractual provisions.
  - (G) Employees and, if applicable, Volunteers must be included as Additional Insured.
  - (H) Employers' Liability (or confirmation that all employees are covered by Worker's compensation (WSIB) or similar program)
  - (I) Broad Form Property Damage including Completed Operations: Expands the Property Damage coverage to include certain losses that would otherwise be excluded by the standard care, custody or control exclusion found in a standard policy.
  - (J) Notice of Cancellation: The Insurer will endeavour to provide the Contracting Authority thirty (30) days written notice of policy cancellation.
  - (K) If the policy is written on a claims-made basis, coverage must be in place for a period of at least 12 months after the completion or termination of the Contract.
  - (L) Owners' or Contractors' Protective Liability: Covers the damages that the Contractor becomes legally obligated to pay arising out of the operations of a subcontractor.
  - (M) Advertising Injury: While not limited to, the endorsement must include coverage for piracy or misappropriation of ideas, or infringement of copyright, trademark, title or slogan.

#### (c) Errors and Omissions Liability Insurance

- (i) The Contractor must obtain Errors and Omissions Liability (a.k.a. Professional Liability) insurance, and maintain it in force throughout the duration of the Contract, in an amount usual for a contract of this nature but for not less than \$1,000,000 per loss and in the annual aggregate, inclusive of defence costs.
- (ii) If the Professional Liability insurance is written on a claims-made basis, coverage must be in place for a period of at least 12 months after the completion or termination of the Contract.
- (iii) The following endorsement must be included:
   Notice of Cancellation: The Insurer will endeavour to provide the Contracting Authority thirty (30) days written notice of cancellation.

#### 18. Limitation of Liability - Information Management/Information Technology

(a) This section applies despite any other provision of the Contract and replaces the section of the general conditions entitled "Liability". Any reference in this section to damages caused by the Contractor also includes damages caused by its employees, as well as its subcontractors, agents, and representatives, and any of their employees. This section applies regardless of whether the claim is based in contract, tort, or another cause of action. The Contractor is not liable to Canada with respect to the performance of or failure to perform the Contract, except as described in this section and in any section of the Contract pre-establishing any liquidated damages. The Contractor is only liable for indirect, special or consequential damages to the extent described in this Article, even if it has been made aware of the potential for those damages.

## (b) First Party Liability:

- (i) The Contractor is fully liable for all damages to Canada, including indirect, special or consequential damages, caused by the Contractor's performance or failure to perform the Contract that relate to:
  - (A) any infringement of intellectual property rights to the extent the Contractor breaches the section of the General Conditions entitled "Intellectual Property Infringement and Royalties";
  - (B) physical injury, including death.
- (ii) The Contractor is liable for all direct damages caused by the Contractor's performance or failure to perform the Contract affecting real or tangible personal property owned, possessed, or occupied by Canada.
- (iii) Each of the Parties is liable for all direct damages resulting from any breach of confidentiality under the Contract. Each of the Parties is also liable for all indirect, special or consequential damages in respect of any unauthorized disclosure of the other Party's trade secrets (or trade secrets of a third party provided by one Party to another under the Contract) relating to information technology.
- (iv) The Contractor is liable for all direct damages relating to any encumbrance or claim relating to any portion of the Work for which Canada has made any payment. This does not apply to encumbrances or claims relating to intellectual property rights, which are addressed under (i)(A) above.
- (v) The Contractor is also liable for any other direct damages to Canada caused by the Contractor's performance or failure to perform the Contract that relate to:

- (A) any breach of the warranty obligations under the Contract, up to the total amount paid by Canada (including any applicable taxes) for the goods and services affected by the breach of warranty; and
- (B) Any other direct damages, including all identifiable direct costs to Canada associated with re-procuring the Work from another party if the Contract is terminated either in whole or in part for default, up to an aggregate maximum for this subparagraph (B) of the greater of .75 times the total estimated cost (meaning the dollar amount shown on the first page of the Contract in the cell titled "Total Estimated Cost" or shown on each call-up, purchase order or other document used to order goods or services under this instrument), or \$1,000,000,00.

In any case, the total liability of the Contractor under subparagraph (v) will not exceed the total estimated cost (as defined above) for the Contract or \$1,000,000.00, whichever is more.

(vi) If Canada's records or data are harmed as a result of the Contractor's negligence or willful act, the Contractor's only liability is, at the Contractor's own expense, to restore Canada's records and data using the most recent back-up kept by Canada. Canada is responsible for maintaining an adequate back-up of its records and data.

#### (c) Third Party Claims:

- (i) Regardless of whether a third party makes its claim against Canada or the Contractor, each Party agrees that it is liable for any damages that it causes to any third party in connection with the Contract as set out in a settlement agreement or as finally determined by a court of competent jurisdiction, where the court determines that the Parties are jointly and severally liable or that one Party is solely and directly liable to the third party. The amount of the liability will be the amount set out in the settlement agreement or determined by the court to have been the Party's portion of the damages to the third party. No settlement agreement is binding on a Party unless its authorized representative has approved the agreement in writing.
- (ii) If Canada is required, as a result of joint and several liability or joint and solidarily liable, to pay a third party in respect of damages caused by the Contractor, the Contractor must reimburse Canada by the amount finally determined by a court of competent jurisdiction to be the Contractor's portion of the damages to the third party. However, despite Subarticle (i), with respect to special, indirect, and consequential damages of third parties covered by this Section, the Contractor is only liable for reimbursing Canada for the Contractor's portion of those damages that Canada is required by a court to pay to a third party as a result of joint and several liability that relate to the infringement of a third party's intellectual property rights; physical injury of a third party, including death; damages affecting a third party's real or tangible personal property; liens or encumbrances on any portion of the Work; or breach of confidentiality.
- (iii) The Parties are only liable to one another for damages to third parties to the extent described in this Sub-article (c).

#### 19. Professional Services - General

- (a) The Contractor must provide professional services on request as specified in this Contract. All resources provided by the Contractor must meet the qualifications described in the Contract (including those relating to previous experience, professional designation, education, language proficiency and security clearance) and must be competent to provide the required services by any delivery dates described in the Contract.
- (b) If the Contractor fails to deliver any deliverable (excluding delivery of a specific individual) or complete any task described in the Contract on time, in addition to any other rights or remedies available to Canada under the Contract or the law, Canada may notify the Contractor of the

deficiency, in which case the Contractor must submit a written plan to the Project Authority within ten working days detailing the actions that the Contractor will undertake to remedy the deficiency. The Contractor must prepare and implement the plan at its own expense.

(c) In General Conditions 2035, the Article titled "Replacement of Specific Individuals" is deleted and the following applies instead:

#### Replacement of Specific Individuals

- (i) If the Contractor is unable to provide the services of any specific individual identified in the Contract to perform the services, the Contractor must within five working days of having this knowledge, the individual's departure or failure to commence Work (or, if Canada has requested the replacement, within ten working days of Canada's notice of the requirement for a replacement) provide to the Contracting Authority:
  - the name, qualifications and experience of a proposed replacement immediately available for Work; and
  - security information on the proposed replacement as specified by Canada, if applicable.

The replacement must have qualifications and experience that meet or exceed those obtained for the original resource.

- (ii) Subject to an Excusable Delay, where Canada becomes aware that a specific individual identified under the Contract to provide services has not been provided or is not performing, the Contracting Authority may elect to:
  - (A) exercise Canada's rights or remedies under the Contract or at law, including terminating the Contract in whole or in part for default under the Article titled "Default of the Contractor", or
  - (B) assess the information provided under (c) (i) above or, if it has not yet been provided, require the Contractor to propose a replacement to be rated by the Project Authority. The replacement must have qualifications and experience that are similar or exceed those obtained for the original resource and be acceptable to Canada. Upon assessment of the replacement, Canada may accept the replacement, exercise the rights in (ii) (A) above, or require another replacement in accordance with this sub-article (c).

Where an Excusable Delay applies, Canada may require (c) (ii) (B) above instead of terminating under the "Excusable Delay" Article. An Excusable Delay does not include resource unavailability due to allocation of the resource to another Contract or project (including those for the Crown) being performed by the Contractor or any of its affiliates.

- (iii) The Contractor must not, in any event, allow performance of the Work by unauthorized replacement persons. The Contracting Authority may order that an original or replacement resource stop performing the Work. In such a case, the Contractor must immediately comply with the order. The fact that the Contracting Authority does not order a resource to stop performing the Work does not relieve the Contractor from its responsibility to meet the requirements of the Contract.
- (iv) The obligations in this article apply despite any changes that Canada may have made to the Client's operating environment.

#### 20. Safeguarding Electronic Media

(a) Before using them on Canada's equipment or sending them to Canada, the Contractor must use a regularly updated product to scan electronically all electronic media used to perform the Work for computer viruses and other coding intended to cause malfunctions. The Contractor must notify Canada if any electronic media used for the Work are found to contain computer viruses or other coding intended to cause malfunctions.

(b) If magnetically recorded information or documentation is damaged or lost while in the Contractor's care or at any time before it is delivered to Canada in accordance with the Contract, including accidental erasure, the Contractor must immediately replace it at its own expense.

#### 21. Representations and Warranties

The Contractor made statements regarding its own and its proposed resources' experience and expertise in its bid that resulted in the award of the Contract and the issuance of TA's. The Contractor represents and warrants that all those statements are true and acknowledges that Canada relied on those statements in awarding the Contract and adding work to it through TA's. The Contractor also represents and warrants that it has, and all its resources and subcontractors that perform the Work have, and at all times during the Contract Period they will have and maintain, the skills, qualifications, expertise and experience necessary to perform and manage the Work in accordance with the Contract, and that the Contractor (and any resources or subcontractors it uses) has previously performed similar services for other customers.

## 22. Access to Canada's Property and Facilities

Canada's property, facilities, equipment, documentation, and personnel are not automatically available to the Contractor. If the Contractor would like access to any of these, it is responsible for making a request to the Project Authority. Unless expressly stated in the Contract, Canada has no obligation to provide any of these to the Contractor. If Canada chooses, in its discretion, to make its property, facilities, equipment, documentation or personnel available to the Contractor to perform the Work, Canada may require an adjustment to the Basis of Payment and additional security requirements may apply.

#### 23. Government Property

Canada agrees to supply the Contractor with the items listed in Sections 9. Client Support and 12. Technical Environment of Annex A, Statement of Work (the "Government Property"). The section of the General Conditions entitled "Government Property" also applies to the use of the Government Property by the Contractor.

#### 24. Identification Protocol Responsibilities

The Contractor will be responsible for ensuring that each of its agents, representatives or subcontractors (hereinafter referred to as Contractor Representatives) complies with the following self-identification requirements:

- (a) Contractor Representatives who attend a Government of Canada meeting (whether internal or external to Canada's offices) must identify themselves as Contractor Representatives prior to the commencement of the meeting, to ensure that each meeting participant is aware of the fact that the individual is not an employee of the Government of Canada;
- (b) During the performance of any Work at a Government of Canada site, each Contractor Representative must be clearly identified at all times as being a Contractor Representative; and
- (c) If a Contractor Representative requires the use of the Government of Canada's e-mail system in the performance of the Work, then the individual must clearly identify him or herself as an agent or subcontractor of the Contractor in all electronic mail in the signature block as well as under "Properties." This identification protocol must also be used in all other correspondence, communication, and documentation.
- (d) If Canada determines that the Contractor is in breach of any obligation stated in this Article, upon written notice from Canada the Contractor must submit a written action plan describing corrective measures it will implement to eliminate the recurrence of the problem. The Contractor will have five working days to deliver the action plan to the Client and the Contracting Authority, and twenty working days to rectify the underlying problem.
- (e) In addition to any other rights it has under the Contract, Canada may terminate the Contract for default if the corrective measures required of the Contractor described above are not met.

# ANNEX A STATEMENT OF WORK

(SEE ATTACHED HERETO)

# ANNEX B BASIS OF PAYMENT

# 1. Professional Services

In accordance with the Contract, the Contractor will be paid the following firm all-inclusive per diem rates for work performed pursuant to this Contract, Applicable Taxes extra.

# **Initial Contract Period:**

Initial Contract Period (From February 24, 2017 to February 23, 2018)					
Resource Category	Level of Expertise	Firm Per Diem Rate			
Application/Software Architect - Specialty in IBM Master Data Management (MDM) Server	Level 3	***			
Application/Software Architect - Specialty in IBM InfoSphere Information Server (IIS) DataStage and Quality Stage	Level 3	3000 a			
Application/Software Architect - Specialty in IBM Infosphere Identity Insight (ISII)	Level 3				
Programmer/Software Developer - Specialty in IBM InfoSphere Information Server (IIS) DataStage and QualityStage	Level 3	14134			
Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java development	Level 3				
Programmer/Software Developer - Specialty in pME (probabilistic Matching Engine) - Matching algorithm development	Level 3				
Programmer/Software Developer - Specialty in IBM Infosphere Identity Insight (ISII)	Level 3				
Programmer/Software Developer - Specialty in IBM Global Name Management (GNM)	Level 3				
Business System Analyst - Specialty in IBM Master Data Management (MDM) - Data Governance	Level 3				

# **Option Periods:**

Option Period 1 (From February 24, 2018 to February 23, 2019)			
Resource Category	Level of Expertise	Firm Per Diem Rate	
Application/Software Architect - Specialty in IBM Master Data Management (MDM) Server	Level 3	<b>*</b>	
Application/Software Architect - Specialty in IBM InfoSphere Information Server (IIS) DataStage and Quality Stage	Level 3		
Application/Software Architect - Specialty in IBM Infosphere Identity Insight (ISII)	Level 3		
Programmer/Software Developer - Specialty in IBM InfoSphere Information Server (IIS) DataStage and QualityStage	Level 3	***************************************	
Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java development	Level 3		
Programmer/Software Developer - Specialty in pME (probabilistic Matching Engine) - Matching algorithm development	Level 3	581	
Programmer/Software Developer - Specialty in IBM Infosphere Identity Insight (ISII)	Level 3		
Programmer/Software Developer - Specialty in IBM Global Name Management (GNM)	Level 3		
Business System Analyst - Specialty in IBM Master Data Management (MDM) - Data Governance	Level 3		

Option Period 2 (From February 24, 2019 to February 23, 2020)			
Resource Category	Level of Expertise	Firm Per Diem Rate	
Application/Software Architect - Specialty in IBM Master Data Management (MDM) Server	Level 3		
Application/Software Architect - Specialty in IBM InfoSphere Information Server (IIS) DataStage and Quality Stage	Level 3	***************************************	
Application/Software Architect - Specialty in IBM Infosphere Identity Insight (ISII)	Level 3	***************************************	
Programmer/Software Developer - Specialty in IBM InfoSphere Information Server (IIS) DataStage and QualityStage	Level 3	100024000000000000000000000000000000000	
Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java development	Level 3		
Programmer/Software Developer - Specialty in pME (probabilistic Matching Engine) - Matching algorithm development	Level 3		
Programmer/Software Developer - Specialty in IBM Infosphere Identity Insight (ISII)	Level 3	,	
Programmer/Software Developer - Specialty in IBM Global Name Management (GNM)	Level 3	c	
Business System Analyst - Specialty in IBM Master Data Management (MDM) - Data Governance	Level 3	10000000	

Option Period 3 (From February 24, 2020 to February 23, 2021)			
Resource Category	Level of Expertise	Firm Per Diem Rate	
Application/Software Architect - Specialty in IBM Master Data Management (MDM) Server	Level 3		
Application/Software Architect - Specialty in IBM InfoSphere Information Server (IIS) DataStage and Quality Stage	Level 3		
Application/Software Architect - Specialty in IBM Infosphere Identity Insight (ISII)	Level 3	100000000000000000000000000000000000000	
Programmer/Software Developer - Specialty in IBM InfoSphere Information Server (IIS) DataStage and QualityStage	Level 3	WWW.234444444444444444444444444444444444	
Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java development	Level 3		
Programmer/Software Developer - Specialty in pME (probabilistic Matching Engine) - Matching algorithm development	Level 3		
Programmer/Software Developer - Specialty in IBM Infosphere Identity Insight (ISII)	Level 3		
Programmer/Software Developer - Specialty in IBM Global Name Management (GNM)	Level 3	***************************************	
Business System Analyst - Specialty in IBM Master Data Management (MDM) - Data Governance	Level 3		

Option Period 4 (From February 24, 2021 to February 23, 2022)			
Resource Category	Level of Expertise	Firm Per Diem Rate	
Application/Software Architect - Specialty in IBM Master Data Management (MDM) Server	Level 3	·	
Application/Software Architect - Specialty in IBM InfoSphere Information Server (IIS) DataStage and Quality Stage	Level 3	***************************************	
Application/Software Architect - Specialty in IBM Infosphere Identity Insight (ISII)	Level 3	***************************************	
Programmer/Software Developer - Specialty in IBM InfoSphere Information Server (IIS) DataStage and QualityStage	Level 3	***************************************	
Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java development	Level 3		
Programmer/Software Developer - Specialty in pME (probabilistic Matching Engine) - Matching algorithm development	Level 3	for the same of th	
Programmer/Software Developer - Specialty in IBM Infosphere Identity Insight (ISII)	Level 3		
Programmer/Software Developer - Specialty in IBM Global Name Management (GNM)	Level 3		
Business System Analyst - Specialty in IBM Master Data Management (MDM) - Data Governance	Level 3		

Option Period 5 (From February 24, 2022 to February 23, 2023)				
Resource Category	Level of Expertise	Firm Per Diem Rate		
Application/Software Architect - Specialty in IBM Master Data Management (MDM) Server	Level 3	·		
Application/Software Architect - Specialty in IBM InfoSphere Information Server (IIS) DataStage and Quality Stage	Level 3			
Application/Software Architect - Specialty in IBM Infosphere Identity Insight (ISII)	Level 3			
Programmer/Software Developer - Specialty in IBM InfoSphere Information Server (IIS) DataStage and QualityStage	Level 3	######################################		
Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java development	Level 3			
Programmer/Software Developer - Specialty in pME (probabilistic Matching Engine) - Matching algorithm development	Level 3			
Programmer/Software Developer - Specialty in IBM Infosphere Identity Insight (ISII)	Level 3			
Programmer/Software Developer - Specialty in IBM Global Name Management (GNM)	Level 3	*****		
Business System Analyst - Specialty in IBM Master Data Management (MDM) - Data Governance	Level 3			

# ANNEX C SECURITY REQUIREMENTS CHECK LIST

(SEE ATTACHED HERETO)

# ANNEX D NON-DISCLOSURE AGREEMENT

I,, recognize that in the course of my work as an employee or subcontractor of, I may be given access to information by or on behalf of Canada in connection with the Work, pursuant to Contract No.  # between Her Majesty the Queen in right of Canada, represented by the President of the CBSA and, including any information that is confidential or proprietary to third parties, and information conceived, developed or produced by the Contractor as part of the Work. For the purposes of this agreement, information includes but not limited to: any documents, instructions, guidelines, data, material, advice or any other information whether received orally, in printed form, recorded electronically, or otherwise and whether or not labeled as proprietary or
sensitive, that is disclosed to a person or that a person becomes aware of during the performance of the Contract.
I agree that I will not reproduce copy, use, divulge, release or disclose, in whole or in part, in whatever way or form any information described above to any person other than a person employed by Canada on a need to know basis. I undertake to safeguard the same and take all necessary and appropriate measures, including those set out in any written or oral instructions issued by Canada, to prevent the disclosure of or access to such information in contravention of this agreement.
I also acknowledge that any information provided to the Contractor by or on behalf of Canada must be used solely for the purpose of the Contract and must remain the property of Canada or a third party, as the case may be.
I agree that the obligation of this agreement will survive the completion of the Contract No. #
Signature
Date

#### ASFC - Divulgation en vertu de la loi sur l'Accès à l'informa

Annex A - Statement of Work (SOW)

Acquisition of Professional Services for SOAPS-MDMS-ERASS

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### 1. Introduction

The Canada Border Services Agency (CBSA) is undertaking an ambitious agenda of change in support of various key initiatives (e.g. Beyond the Border, Entry-Exit, Biometrics, Generic Passage Flow), and Border modernization efforts. The Information, Science and Technology Branch (ISTB) support these efforts with oversight and alignment of major capital projects and the associated information technology solutions. Traditional IT functions have been augmented with program directorates that drive business transformation efforts and alignment of business solutions in portfolios for Travelers, Commercial, Common and Corporate projects.

In order to advance the planning, development and implementation of the CBSA's transformation agenda, ISTB has implemented an enterprise approach to the management of its portfolio of systems, projects and services. The following key steps have been taken to implement this enterprise approach to portfolio management:

- The creation of ISTB Service Portfolio Directorates Corporate, Commercial, Traveler and Common Services;
- The implementation of a Service Life Cycle Management Framework (SLMF) to help align the
  provision of ISTB services with the needs of CBSA. The SLMF is used to integrate the methods,
  processes, roles and responsibilities within ISTB with CBSA's business strategy to deliver value.
  The SLMF establishes a baseline from which ISTB can plan, build, operate, manage and evolve
  services; and
- The alignment and implementation of the following frameworks: Project Management, Project Portfolio and Service Life Cycle Management.

As part of this transformation the Common Services Portfolio has been created with the mandate of leading key projects to deliver various new enterprise building bock capabilities and services for CBSA. These projects include Service Oriented Architecture Platform Services (SOAPS), Master Data Management Services (MDMS), and Enterprise Risk Assessment Support Services (ERASS). Together, they will provide enterprise back-end capabilities for Entry-Exit and other key CBSA initiatives.

# 2. Background

The Common Services Portfolio has a mandate to plan, lead and stand up, in multiple releases, key mission-critical, large-scale, high-volume foundational services to deliver increased horizontal capabilities and services for CBSA. The services to be implemented are Service Oriented Architecture Platform Services (SOAPS), Master Data Management Services (MDMS), and Enterprise Risk Assessment Support Services (ERASS).

The delivery of these foundational services will allow CBSA to increase its ability to meet its security obligations and provide both efficient and effective management of its resources in support of risk management and assessment activities.

#### 2.1 SOAPS

SOA will enable reusable, horizontal enterprise services providing modern, robust, and agile IT services. The CBSA SOA services will be realized by integrating a number of Commercial Off-the-Shelf (COTS) products, augmented by custom development for capabilities not readily available in the market.

The SOA platform services will be a cornerstone of CBSA's information technology systems to promote the development of horizontal services within the enterprise, they will enable re-use of common business function.

These platform services will be used by CBSA Lines of business (LOB) initiatives to develop and deploy ITenabled business services. COTS products, ESB IBM Integrated Bus (IIB), IBM Business Process Manager (BPM), IBM Operational Decision Manager (ODM) Standard, and IBM Operational Decision Manager (ODM) Advanced will be used to enable and support the SOA platform services.

#### **2.2 MDMS**

MDM will become the authoritative system of record for CBSA's people and business tombstone data and will be critical in enabling a 360 degree view of people and businesses. After the MDM system is put in place, all systems at CBSA will have the ability to integrate with the MDM solution when requiring access to people and business tombstone data.

Stewards responsible for maintaining the MDM data quality will be put in place as part of the initiative and will align to the overall direction for data governance to be provided by the Enterprise Data Governance initiative.

An ingestion service based on IBM InfoSphere DataStage and QualityStage COTS, under the IBM InfoSphere Information server (IIS) product suite, will be used to feed required data (initial loads and ongoing feeds) from various CBSA data sources into relevant COTS for search purposes.

The MDMS requires the use of the following architecture components:

- The Master Data Management (MDM)component will provide services to maintain and search party information (businesses and people) as well as a user interface to govern the mastered data (data stewardship interface).
- The Data Preparation and Loading Service (DPLS) component will provide services to extract, cleanse, standardize, transform and ingest data during initial load as well as ongoing operational processes.

#### 2.3 ERASS

Enterprise Risk Assessment Support Service (ERASS) will build upon the SOA platform to deliver the Entity Resolution and Search Service providing enterprise services in support of the CBSA risk assessment landscape.

Its primary services relate to identity resolution, fuzzy search, and federated search of information related to a specified person across multiple LOB systems. ERASS is dependent on MDMS and SOAPS as a result of service provisioning and utilization amongst them.

ERASS will leverage MDMS for entity resolution, data preparation, and data loading services. ERASS will also require the ESB component within SOAPS to host the public interface and processes that comprise the services offered by ERASS.

Additionally, ERASS could make use of Informatica SSA Name 3 as a component of the Fuzzy Search Service. Relationship resolution is an additional service offered by ERASS which will provide obvious and non-obvious relationship discovery capabilities for ingested entities. The Relationship Resolution Service (RRS) will require IBM's InfoSphere Identity Insight (ISII) COTS software product as an architecture component.

# 2.4 Travellers - Entry-Exit

Entry-Exit will be the initial on-boarder to the components included in the SOA platform services. Entry-Exit is responsible for the development of a key Government of Canada commitment under the Canada US Border Action plan, to create a Canadian entry and exit information system which will, ultimately, provide a valuable new source of information with potential benefits for security, law enforcement and program integrity. The key deliverables of the Entry-Exit Project rely on the ability to identify individuals and recognize if they are known or unknown to CBSA.

The delivery of the Entry-Exit project is dependent on the components found in the SOA platform services. Entry-Exit will leverage the SOA and MDM components to deliver the following:

- Calculating duration of complete Entry to Exit Events.
- Calculating duration of complete Exit to Entry Events
- Calculating duration of open Exit Events.
- Calculating duration of open Entry Events.
- Calculating complete events over specified periods of time.
- Reconciliation of data from multiple sources to create an Entry or Exit Event.
- Determination of mode of transportation.
- Enhanced people name searching and matching support;
- Identity resolution for entities that exist in multiple databases;
- Relationship resolution for entities across multiple databases, and;
- Alerting.

An ingestion service based on IBM InfoSphere DataStage and QualityStage COTS, under the IIS product suite, will be used to feed required data (initial loads and ongoing feeds) from various CBSA data sources into relevant COTS for search purposes.

# 3. Objective

The specific objective of this procurement is to acquire the professional services on an as required basis to support the work of CBSA in the establishment and integration of the above mentioned key mission-critical foundational services, i.e. SOAPS, MDMS, and ERASS.

It is expected that the Contractor's resources will be used across CBSA. The resources will be involved in the architecture and design, development, configuration, testing, optimization, integration with other related components and systems, deployment, and support and maintenance of the above mentioned foundational services in a complex technical environment using the Crown-owned suite of commercial off-the-shelf (COTS) products.

# 4. Scope

The scope of work consists of the acquisition of professional services to provide guidance, expertise, deliverables, and assistance to perform the development, deployment, configuration, integration, and post-implementation maintenance support of the architecture components required for SOAPS, MDMS, and ERASS.

On an as and when requested basis, through the issuance of Task Authorizations (TAs), the Contractor must perform the tasks as described in section 7 below.

To realize this delivery within the time constraints, CBSA foresees a requirement for the assistance of professional services, starting from October 2016 until the end of March 2020, in the following domains: (1) architecture, (2) software development and configuration, (3) system analysis, (4) testing services, (5) business analysis, (6) IT Security, and (7) systems-solutions integration.

CBSA plans to iterate the delivery of the above-mentioned services through phases identified in section 5 below: (1) Planning, (2) Building, (3) Verification, (4) Production, (5) On-Boarding, (6) Maintenance. Each phase will include embedded controls and checkpoints and will require the work of professional services for which categories and tasks are identified below in sections 6 and 7. The resources may be required to perform tasks in any or all of the phases. These services need to be delivered in accordance with CBSA approved methodologies and frameworks.

## 4.1 Out of Scope - End-User Support

The Contractor will not be required to provide End-User Support following post-implementation of the architecture components required for SOAPS, MDMS, and ERASS.

## 5. Phases

The work delivery of the above-mentioned services will need to be performed iteratively through phases. Each phase has a set of expected deliverables. Note that there may be some overlap in the timing of the phases such that a later phase may begin before the prior phase has completed. Deliverables may include but are not limited to the following:

- 1. Planning Phase System Requirements Specifications (SRS), Architecture and Design Specification (ADS), System Use Cases (SUC), System Requirements Traceability Matrix (S-RTM), high level architecture, preliminary User Interface (UI) screens, and master test plan;
- 2. Building Phase System components and integration, unit, integration and component test plan, development release notes, ADS, S-RTM, Test to System Requirements Traceability Matrix (TS-RTM), implementation schedule;
- 3. Verification Phase Master test plan (fully defined), functional acceptance plan, verification test plan, verification test report, release notes, defects, build book, component and integration documentation, screen captures and hierarchy, ADS, TS-RTM, production implementation schedule;
- 4. Production Phase SRS, comprehensive traceability matrix, master test plan, test reports, ADS, operations release guide, release notes, Service Level Agreements (SLAs), build book;
- 5. On-boarding Phase client engagement plan, technical qualification and assessment, client readiness and development, integration endorsement and testing, production readiness assessment, implementation schedule, SRS, ADS, SUC;
- 6. Maintenance Phase Maintenance system documentation, maintenance component and integration documentation, maintenance performance verification testing, operations services documentation, monitoring and reporting requirements.

# 6. Resource Categories

The table below identifies the categories of expert resources that CBSA anticipates requiring on an as and when requested basis.

TBIPS Category	Level of Expertise	Area of expertise	
	3	Specialty in IBM InfoSphere Information Server (IIS) DataStage and QualityStage	
Programmer/Software	3	Specialty in IBM Master Data Management (MDM) - Java development	
Developer	3	Specialty in pME (probabilistic Matching Engine) - Matching algorithm development	
	3	Specialty in IBM Infosphere Identity Insight (ISII)	
	3	Specialty in IBM Global Name Management (GNM)	
	3	Specialty in IBM Master Data Management (MDM) Server	
Application/Software Architect	3	Specialty in IBM InfoSphere Information Server (IIS) DataStage and Quality Stage	
	3	Specialty in IBM Infosphere Identity Insight (ISII)	
Business System Analyst	3	Specialty in IBM Master Data Management (MDM) - Data Governance.	

# 7. Tasks and Activities

This section describes the categories of expert resources and the basic responsibilities for each that CBSA anticipates will be required to build, integrate, test, and deploy a large-scale integrated SOA, MDM, and ERASS foundation. The Contractor may be required to perform the tasks and produce the deliverables identified, but not limited to, the lists provided below. Each individual Task Authorization (TA) will detail the specific tasks and deliverables to be completed.

# 7.1 Programmer/Software Developer

The resources identified may be required to participate in any or all phases identified in the Scope section above.

## 7.1.1 Specialty in IBM InfoSphere Information Server (IIS) DataStage and QualityStage

Tasks (may include but not limited to the following) -

- Develop DataStage extract, transform, and load (ETL) jobs using the DataStage ETL scripting language to extract source data, transfer data and generate MDM xml requests;
- Develop jobs to extract data from Master Data Management (MDM), and load into CBSA data source;

- Design, develop and test QualityStage name standardization jobs using the QualityStage scripting language based on CBSA name standardization rules provided; and
- Perform integration with the following: IBM Enterprise Service Bus, IBM Integration Bus (ESB-IIB), and MDM.

Deliverables (may include but not limited to the following) -

- Detailed design documents for all customized code and configuration solution components for Extract, Transform, and Load (ETL) jobs using IBM IIS DataStage;
- Detailed design documents for all customized code and configuration solution components for ETL jobs using IBM IIS QualityStage;
- ETL jobs for:
  - o CBSA MDM data ingestion from source databases; and
  - o Loading MDM CBSA entity identification to source system.
- QualityStage jobs for CBSA name standardization; and
- Loading MDM data into MDM downstream systems such as Enterprise Data Warehouse (EDW) or Business Intelligence (BI).

#### 7.1.2 Specialty in IBM Master Data Management (MDM) - Java development

Tasks (may include but not limited to the following) -

- Review of MDM detail design document in order to confirm or identify implementation approach;
- Design and develop IBM MDM server solution components including web service customizations and user interface customizations using Java technologies;
- Design and implement system integration components to integrate the IBM InfoSphere MDM server solution with CBSA business systems and third party reference data sources;
- Document the processes and steps needed to build, administer and support all tests, development and production environments;
- Perform MDM knowledge transfer to CBSA application support team;
- Perform the activities required for solution implementation, integration, and operation in production;
- Perform defect analysis and create new requirements as required;
- Modify service or solution design, as necessary;
- Confirm continued operation of integrated service or solution;
- Integration with IBM Integration Bus (IIB) Enterprise Service Bus (ESB);
- Integration IBM InfoSphere Information Server (IIS) QualityStage and DataStage; and
- Package fixed or enhanced solution for redeployment.

Deliverables (may include but not limited to the following) -

System requirements, System Use Cases;

- Application code, including customizations;
- Updated detailed design documents;
- Developed, integrated and tested MDM component working with an approved interchange data format; and
- MDM server solution component packaging and promotion strategy document.

#### 7.1.3 Specialty in pME (probabilistic Matching Engine) - Matching algorithm development

Tasks (may include but not limited to the following) –

- Lead business requirement gathering on party matching scenarios;
- Design and implement IBM MDM server business rule configurations including pME matching rules, duplicate suspect processing rules, data survivorship rules, business validation rules;
- Customize and fine tune MDM pME matching algorithm based on business requirements;
- Review matching result with business team;
- Support MDM initial load and incremental process; and
- MDM pME matching algorithm developer will be provided with CBSA data source to MDM data mapping document, and subset of CBSA production source data.

Deliverables (may include but not limited to the following) –

- System Use Cases, system requirements;
- Detailed design documents for all customized code and configurations for IBM InfoSphere MDM server related solution components;
- High Level Design document for pME rules, duplicate suspect processing and data survivorship rules;
- Application code, including customizations;
- pME configuration:
- Unit, integration and system test plan documents and customized code, and configuration solution components for IBM InfoSphere MDM Server related solution components;
- IBM InfoSphere MDM server solution component packaging and promotion strategy document;
- Fully configured and tested probability Matching Engine (pME) working with an approved interchange data format and matching business requirements; and
- Other analysis, advice, and guidance as required.

#### 7.1.4 Specialty in IBM Infosphere Identity Insight (ISII)

Tasks (may include but not limited to the following) -

- Package Service solution for deployment;
- Perform initial and ongoing data ingestion;
- Design and develop integration points with new data sources;
- Configure deliverables to integrate into CBSA testing environment;

- Tune performance of solution (including data review and validation;
- Tune solution to meet non-functional requirements;
- Conduct functional and non-functional testing in CBSA environment; and
- Conduct integration testing with CBSA applications and other components include ESB-IIB, MDM, IIS DataStage and QualityStage.

Deliverables (may include but not limited to the following) -

- Application code, including customizations;
- Detailed design documents for all customized code and configuration; and
- System requirements and system use cases.

### 7.1.5 Specialty in IBM Global Name Management (GNM)

Tasks (may include but not limited to the following) -

- Work collaboratively in a multi-disciplinary project environment contributing significant IBM Global Name Management (GNM) solution expertise;
- Contribute to name standardization rules;
- Document and analyze complex business requirements, business rules, System Use Cases and system requirements;
- Design and develop IBM GNM solution components including web service customizations and user interface customizations using Java technologies;
- Design and develop system integration components to integrate the IBM GNM solution with CBSA business systems and third party reference data sources; and
- Contribute to planning and execution of performance testing of IBM GNM solution.

- System Use Cases, system requirements;
- Detailed design documents for all customized code and configurations for IBM GNM related solution components;
- High level design document for name standardization rules;
- Application code, including customizations;
- Unit, integration and system test plan documents and customized code and configuration solution components for IBM GNM related solution components;
- Developed, integrated and tested GNM component working with an approved interchange data format; and
- IBM GNM component packaging and promotion strategy document.

# 7.2 Application/Software Architect

## 7.2.1 Specialty in IBM Master Data Management (MDM) Server

Tasks (may include but not limited to the following) -

- Provide assistance and guidance to install, configure, and test MDM products to all CBSA environments and document;
- Assist in MDM infrastructure design;
- Review MDM Server components hardware sizing;
- Provide guidance and assistance in performance tuning, load balancing and optimization strategies for IBM InfoSphere MDM Server environment;
- Perform knowledge transfer to CBSA application support team;
- Provide best practices on IBM MDM implementation;
- Assist on MDM and other CBSA Data sources data mapping;
- Review MDM data mapping and MDM business functional requirement;
- Review CBSA non-functional requirement;
- · Provide MDM high level design and detail design;
- Provide assistance and guidance to the MDM development team;
- Assist the test coordinator(s) with preparing test cases and providing input to test plans to validate final designs;
- Assist the project manager for resource planning;
- MDM security frameworks and integration with CBSA security policy and identity stores;
- Provide guidance for MDM performance tuning; and
- Integration with ESB-IIB, IIS and ISII.

- Design of MDM environment integrated with IIS server in CBSA data center;
- Installation scripts to install MDM Server on different environments;
- Availability, fail-over and recoverability strategies;
- Step by step installation documentation with screenshots;
- MDM solution high level design document; and
- MDM components detailed design document.

#### 7.2.2 Specialty in IBM InfoSphere Information Server (IIS) - DataStage and Quality Stage

Tasks (may include but not limited to the following) -

- Review CBSA IIS server installation topology;
- Provide assistance and guidance to install and configure information server products for CBSA including WebSphere Information Services Director of Information Server;
- Ensure proper DataStage and QualityStage project version control is in place;
- Provide technical expertise to install and configure InfoSphere for the integration of IIS components;
- IIS security frameworks and integration with CBSA security policy and identity stores; and
- Provide assistance and guidance to performance tuning, load balancing and optimization strategies for IBM InfoSphere in the context of the MDM Server environment.

Deliverables (may include but not limited to the following) –

- Design documentation for IIS server HA environment in CBSA data center, integrated with MDM server; and
- IIS server step by step installation documentation with screenshots.

#### 7.2.3 Specialty in IBM Infosphere Identity Insight (ISII)

Tasks (may include but not limited to the following) -

- As an IBM ISII subject matter expert (SME), provide technical expertise to install and configure of ISII COTS product;
- Prepare and load ISII repository data and setup ongoing data ingestion;
- Support business and technical teams by providing expertise and advice regarding the ISII product usage to meet the business functional requirements;
- Provide assistance on integration with CBSA applications and other components including ESB-IIB, IIS DataStage and QualityStage;
- Provide expertise in the integration of ISII with IBM MDM system;
- ISII security frameworks and integration with CBSA security policy and identity stores;
- Transfer knowledge through documentation and solution design artifacts; and
- Configure matching rules based on various business requirements.

- Technical work breakdown and execution sequence;
- Design options and recommendations;
- Input to MDM standards, procedures, and data governance;
- Development and implementation strategy; and
- Written analysis, strategic advice, and guidance as required.

## 7.3 Business System Analyst

The resources identified may be required to participate, on demand, in any or all phases identified in the Scope section above.

### 7.3.1 Specialty in IBM Master Data Management (MDM) - Data Governance

Tasks (may include but not limited to the following) -

- Responsible for the establishment, maintenance and execution of master data policies and workflow management, proactively maintain the integrity and accuracy of CBSA master data;
- Establish master data policies and procedures to ensure data meets defined quality targets;
- Understand CBSA enterprise data model and processes to successfully define party attributes within master data databases;
- Establish the policies for setting up, maintaining, validating and cleansing CBSA party data;
- Maintain changes to data process maps, document new processes and support ongoing audit requirement;
- Act as subject matter expert and support CBSA projects to ensure that processes meet data policies and procedures best practices;
- Assist senior manager in defining guidelines and KPI for all master data parameters, and build and maintain a data governance framework;
- Assist MDM teams in the creation of business rules, entities, party attributes;
- Understand CBSA application data model and MDM data model;
- Perform CBSA master data maintenance;
- Resolve duplicate suspect parties in MDM database; and
- Identify and resolve data quality issues.

- CBSA master data governance business requirement documents;
- CBSA master data governance business process and rules documents;
- MDM data maintenance report;
- MDM suspect duplication resolution report; and
- MDM data quality issue and solution report.

### 8. Constraints

Professional resources procured through this vehicle will be expected to adhere to the CBSA operating model, following CBSA standards and processes to accomplish their project work. The Contractor's resources will be required to abide by architectural design documents which have been developed and approved prior to the commencement of their services such as Release Proposal, Architecture Design Specification, and System Use Cases. CBSA will provide copies of all templates and policies applicable after contract award.

The professional services resources will be integrated into and collaborating with various CBSA responsibility centers working alongside CBSA employees and other professional contracted resources of varying disciplinary backgrounds.

Knowledge transfer, application code developed for CBSA, and documentation as necessary is expected from all professional resources hired through this vehicle and is required to ensure that CBSA personnel have the knowledge and mechanisms to independently support and sustain the infrastructure deployed through this contract.

Both software and hardware specifications identified in Section 12.2 and 12.3 respectively are provided for information purposes only and may be subject to change. Additional hardware and software components will be included in the applicable Task Authorizations.

Each Task Authorization will identify any additional constraints if applicable.

# 9. Client Support

CBSA will ensure that the Contractor's resource is provided with:

- Security access to the building; and
- Access to relevant project documentation; and
- Workspace and CBSA equipment.

#### 10. Work Location

The specific work location will be identified in each Task Authorization. Unless specified otherwise, the work location will be a CBSA office in the National Capital Region (NCR).

# 11. Language Requirement

The resources must be able to perform the work and provide any deliverables in English. Each Task Authorization will identify the specific language requirements.

# 12. Technical Environment

The Canada Revenue Agency (CRA) and Shared Services Canada (SSC) currently provide infrastructure services to CBSA.

# 12.1 CBSA High-Availability (HA) Environment

Critical CBSA business applications require 24-7 availability and dual data center failover. As such, the computing environment including both infrastructure and software applications must be well integrated in ensuring critical CBSA systems are available at all time. This requires an application ability to mask both scheduled and un-scheduled outages. If required, CBSA standard Relational Database Management Systems (RDBMS) are available to store, report and retrieve enterprise authorized data on the CBSA enterprise platforms as defined by the CBSA technical platform document.

The integration of software applications in a highly available environment, paramount to support the model for the SOAPS, may include, but is not limited to, the following technologies:

- Clustered or redundant Web technologies: WebSphere, and Apache.
- Clustered or redundant DBRMS: DB2 with PureScale.
- Redundant LDAP, SiteMinder, and Identity Manager.
- Load balancer technologies using Apache servers and network appliances.
- Cognos SPSS
- SSA-Name3

# 12.2 Software Components

CBSA owns all licenses to use the IBM products found in the table below:

COTS	Version and Platform	DB and Platform	Description
IBM Master Data	11.5 on	DB2 on	MDM provides maintenance
Management (MDM)	Linux	Linux	and search capabilities for
			mastered businesses and people
IBM Global Name	5.0 or	N.A.	Name structure recognition
Management (GNM)	above		with cultural backgrounds.
IBM DataStage (DS) and	IIS 11.5	DB2 on	DS and QS extract data from
QualityStage (QS)		Linux	data sources, cleanses,
			standardizes and loads it
			into the target database
IBM Business Process	8.5.6 or	DB2 on	BPM provides business
Management (BPM)	above on	Linux	process automation.
Advanced	Linux		
	IBM Master Data Management (MDM)  IBM Global Name Management (GNM)  IBM DataStage (DS) and QualityStage (QS)  IBM Business Process Management (BPM)	IBM Global Name Management (MDM)  IBM Global Name Management (GNM)  IBM DataStage (DS) and QualityStage (QS)  IBM Business Process Management (BPM)  and Platform  11.5 on Linux  IBM 5.0 or above IIS 11.5	IBM Global Name Anagement (GNM)  IBM DataStage (DS) and QualityStage (QS)  And Platform  DB  on  Linux

Enterprise Service Bus (ESB)	IBM IIB	10 or above	DB2 on Linux	IBM Integration Bus connects applications together. It routes, transforms, and enriches messages from one location to any other location.
Business Rules Management Service (BRMS) and Event Management Service (EMS)	IBM ODM Advanced  IBM ODM Standard	8.7 or above	DB2 on Linux	ODM manages the business decision logic that is used by operational systems
Relationship Resolution Service (RRS)	IBM InfoSphere Identity Insight (ISII)	8.1.0 or above	DB2 on Linux	IBM InfoSphere Identity Insight resolves inconsistent, ambiguous identity records into comprehensive entities across multiple data sets
IBM SOA Integrated Development tools	IBM integration Designer, IBM Integration Explorer, IBM Business Process Designer, IBM ODM Rule Designer, IBM ODM Decision Server Event Designer	Various	DB2 on Linux	Set of tool to support the development and implementation of an integrated SOA, MDM, and ERASS foundation.

# 12.3 Hardware specification

The following table provides the hardware specifications in anticipation of the integrated SOA, MDM, and ERASS foundation implementation and delivery:

Component	Hardware	Specifications	Units
	Server specification	Xeon ES-2650 2x8 with 70 PVU score	
	Servers	Blade (Without VM)	36
		Blade (With VM)	30
MDM	Chassis		6
		Primary Disk capacity (Gb)	15862.50 (gb)
	SAN Storage	Mirrored capacity (Gb)	15862.50 (gb)
		SAN ports	
SOA	Servers	Blade 32 cores	8.5625
30A	Chassis		4

# Appendix A - Non-Functional Requirements

# Volumetric – expected peak number of transactions per second

The following table illustrates the expected volumes (peak number of transactions per second) that are associated with the functioning services:

Component		Year				
	Service 201	2016	2017	2018	2019	2020
SOA	ESB	36.54	76.37	77.89	79.45	81.04
	BPM	19.21	19.60	19.99	20.39	20.80
	BRMS	27.35	66.99	68.33	69.70	71.09
	EMS	0.42	0.81	0.83	0.85	0.86
ERASS	ERSS	35.76	36.52	37.30	38.10	38.92

### Volumetric - Volumes

Component	сотѕ	Demand Unit	Release 1	Release 2
84584	IDAA AADAA	Created businesses during initial load	6,000,000	N.A.
MDM	IBM MDM	Peak transactions per second	27	49
	IBM DataStage	Peak transactions per second	27	49
DPLS	IBM QualityStage or AVI	Transactions per second	27	49

#### Volumetric - ID resolution and reconciliation RP

Reconciliation and identity resolution is tightly aligned with Master Data Management (MDM) services for initial load, and coupled with query functionality for ongoing operations.

- Created people during initial load 63,000,000
- Created new people in 5 years after release 50,000,000

## **Availability**

- The SOA enablement solution system must be highly available for 24-7 service with planned outages of 2 hours per month or 99.9+% operational ability.
- ERASS must be highly available for 24-7 service with 99.5% operational ability.
- MDM must be available 24 hours per day, 7 days per week, and 365 days per year.

# Appendix B – Acronyms

Acronym	Description		
ADS	Architecture and Design Specification		
ВІ	Business Intelligence		
BPMN	Business Process Modeling Notation		
BUC	Business Use Cases		
CBSA	Canada Border Services Agency		
COTS	Custom Off The Shelf		
CRA	Canada Revenue Agency		
DPLS	Data Preparation and Loading Service		
EDW	Enterprise Data Warehouse		
EFSS	Entity Fuzzy Search Service		
ERASS	Enterprise Risk Assessment Support Services		
ERSS	Entity Resolution and Search Service		
ESB	Enterprise Service Bus		
ETL	Extract, Transform, and Load		
GNM	Global Name Management		
GoC	Government of Canada		
GC SOA	Government of Canada Service Oriented Architecture		
НА	High Availability		
IIB	IBM Integration Bus		
IIS	InfoSphere Information Server		
ISII	InfoSphere Identity Insight		
ISTB	Information, Science and Technology Branch		
KPI	Key Performance Indicator		
LDAP	Lightweight Directory Access Protocol		
LOB	Line of Business		
MDM	Master Data Management		
MDMS	Master Data Management Services		
NCR	National Capital Region		
ODM	Operational Decision Management		
pME	probabilistic Matching Engine		
RDBMS	Relational Database Management System		
REST	Representational State Transfer		
ROI	Return on Investment		
RP	Release Proposal		
RRS	Relationship Resolution Service		
SAN	Storage Area Network		
SCM	Software Configuration Management		
SLA	Service Level Agreement		
SME	Subject Matter Expert		
SOA	Service Oriented Architecture		
SOAP	Simple Object Access Protocol		
SOAPS	Service Oriented Architecture Platform Services		
SRS	System requirements specification		

S-RTM	System Requirements Traceability Matrix	
SUC	ystem Use Cases	
SSC	Shared Services Canada	
TA	Task Authorization	
TS-RTM	Test to System Requirements Traceability Matrix	
UML	Unified Modeling Language	

# Appendix C – Glossary

Acronym or	Description
Term	
ADS	An Architecture and Design Specification (ADS) document contains architecture and design information. The Architecture definition is contained in Parts 1 and 2; and the Design is captured in Parts 3 and 4.
ВРМ	Business process management (BPM) is a discipline that uses various methods to discover, model, analyze, measure, improve, and optimize business processes. A business process coordinates the behavior of people, systems, information, and things to produce business outcomes in support of a business strategy.
Deployment	Deployment services support the implementation and rollout of new applications or infrastructure. Activities may include hardware or software procurement, configuration, tuning, staging, installation and interoperability testing.
ETL	<ul> <li>ETL is short for extract, transform, and load, three database functions that are combined into one tool to pull data out of one database and place it into another database.</li> <li>Extract is the process of reading data from a database.</li> <li>Transform is the process of converting the extracted data from its previous form into the form it needs to be in so that it can be placed into another database. Transformation occurs by using rules or lookup tables or by combining the data with other data. Load is the process of writing the data into the target database.</li> </ul>
Implementation	A term used to designate the phases of the system lifecycle that are responsible for the delivery of an information system. It includes the initiation, development and acquisition, and integration and installation phases of the system lifecycle, but excludes the operations and maintenance phase and the disposal phase.
Master Data Management	<ul> <li>Master data management (MDM) of product data solutions are software products that:</li> <li>Support the global identification, linking and synchronization of product information across</li> <li>heterogeneous data sources through semantic reconciliation of master data</li> <li>Create and manage a central, persisted system of record or index of record for master data</li> <li>Enable delivery of a single product view to all stakeholders, in support of various business benefits</li> <li>Support ongoing master data stewardship and governance requirements through workflow-based</li> <li>monitoring and corrective action techniques</li> </ul>
Project implementation	Project implementation or execution is directing, managing, performing and accomplishing the project work, providing the deliverables, and providing work performance information.
Relationship analytical tool	A system that provides services to analyze identities and their relationship for the purpose of fraud detection and risk assessment.
SOA	SOA is an approach for developing enterprise information systems solutions based on services. SOA is an industry best practice, which promotes open architecture. SOA aims to align information system services with business processes and data to enable re-use of business level functions. SOA is a foundation architecture that will influence systems development across the Agency's line of business portfolios.

GC SOA	The GC Service Oriented Architecture (GC SOA) is a comprehensive reference model that guides the use and adoption of Service Oriented Architectures (SOA) across the Government of Canada.
System integration	It ensures that the various segments and elements of the total system can interface with each other and with the external environment. [Thayer & Thayer European Perspective 1993]

# Appendix D - Tasking Assessment Procedure

- Where a requirement for a specific task is identified, a draft Task Authorization Form (TA Form) as attached at Appendix E to Annex A will be provided to the Contractor in accordance with the allocation methodology stated in the Contract Article titled "Allocation of Task Authorizations". Once a draft TA Form is received, the Contractor must submit to the Technical Authority a quotation of rates to supply the requested Resource Categories based on the information identified in the TA Form. The quotation must be signed and submitted to Canada within the time for response identified in the TA Form. The Contractor will be given a minimum of 3 working days turnaround time to submit a quotation.
- 2. For each proposed resource the Contractor must supply a résumé, the requested security clearance information and must complete the Response Tables at Appendix F of Annex A applicable to the Resource Categories identified in the draft TA. The same individual must not be proposed for more than one Resource Category. The résumés must demonstrate that each proposed individual meets the qualification requirements described (including any educational requirements, work experience requirements, and professional designation or membership requirements). With respect to the proposed resources:
  - (i) Proposed resources may be employees of the Contractor or employees of a subcontractor, or these individuals may be independent contractors to whom the Contractor would subcontract a portion of the Work. (Refer to Appendix G to Annex A, Certifications).
  - (ii) For educational requirements for a particular degree, designation or certificate, Canada will only consider educational programmes that were successfully completed by the resource before the date the draft TA was first issued to the Contractor.
  - (iii) For requirements relating to professional designation or membership, the resource must have the required designation or membership by the time of draft TA issuance and must continue, where applicable, to be a member in good standing of the profession or membership throughout the assessment period and Contract Period. Where the designation or membership must be demonstrated through a certification, diploma or degree, such document must be current, valid and issued by the entity specified in this Contract or if the entity is not specified, the issuer must have been an accredited or otherwise recognized body, institution or entity at the time the document was issued.
  - (iv) For work experience, Canada will not consider experience gained as part of an educational programme, except for experience gained through a formal co-operative programme at a post-secondary institution.
  - (v) For any requirements that specify a particular time period (e.g., 2 years) of work experience, Canada will disregard any information about experience if the résumé does not include the relevant dates (month and year) for the experience claimed (i.e., the start date and end date). Canada will evaluate only the duration that the resource actually worked on a project or projects (from his or her start date to end date), instead of the overall start and end date of a project or a combination of projects in which a resource has participated.
  - (vi) A résumé must not simply indicate the title of the individual's position, but must demonstrate that the resource has the required work experience by explaining the responsibilities and work performed by the individual while in that position. Only listing experience without providing any supporting data to describe responsibilities, duties and relevance to the requirement, or reusing the same wording as the TA Form, will not be considered "demonstrated" for the purposes of the assessment. The Contractor should provide complete details as to where, when, month and year, and how, through which activities or responsibilities, the stated qualifications and experience were obtained. In situations in which a proposed resource worked at the same time on more than one

project, the duration of any overlapping time period will be counted only once toward any requirements that relate to the individual's length of experience.

- 3. The qualifications and experience of the proposed resources will be assessed against the requirements set out in Appendix F to Annex A to determine each proposed resource's compliance with the mandatory and rated criteria. Canada may request proof of successful completion of formal training, as well as reference information. Canada may conduct reference checks to verify the accuracy of the information provided. If reference checks are done, they will be conducted in writing by e-mail (unless the contact at the reference is only available by telephone). Canada will not assess any points or consider a mandatory criterion met unless the response is received within 5 working days. On the third working day after sending out the emails, if Canada has not received a response. Canada will notify the Contractor by e-mail, to allow the Contractor to contact its reference directly to ensure that it responds to Canada within 5 working days. Wherever information provided by a reference differs from the information supplied by the Contractor, the information supplied by the reference will be the information assessed. Points will not be allocated or a mandatory criteria considered as met if the reference customer is not a customer of the Contractor itself (for example, the customer cannot be the customer of an affiliate of the Contractor). Nor will points be allocated or a mandatory criteria considered as met if the customer is itself an affiliate or other entity that does not deal at arm's length with the Contractor. Crown references will be accepted.
- 4. During the assessment of the resources proposed, should the references for two or more resources required under that TA either be unavailable or fail to substantiate the required qualifications of the proposed resources to perform the required services, the Contracting Authority may find the quotation to be non-responsive.
- Only quotations that meet all of the mandatory criteria will be considered for assessment of the point rated criteria. Each resource proposed must attain the required minimum score for the point rated criteria for the applicable Resource Category. If the minimum score for any proposed resource is less than what is required, the Contractor's quotation will be found to be non-responsive.
- 6. Once the quotation has been accepted by the Technical Authority, the TA Form will be signed by Canada and provided to the Contractor for signature. The TA Form must be appropriately signed by Canada prior to commencement of any work. The Contractor must not commence work until a validly issued TA Form (the Task Authorization) has been received, and any work performed in its absence is done at the Contractor's own risk.

# Appendix E – Task Authorization Form

(SEE ATTACHED HERETO)

Appendix F – Resources Assessment Criteria and Response Table

(SEE ATTACHED HERETO)

# Appendix G – Certifications at the TA Stage

The following Certifications are to be used, as applicable. If they apply, they must be signed and attached to the Contractor's quotation when it is submitted to Canada.

1.	CERTIFICATION OF EDUCATION AND EXI	PERIENCE
propo achie Furth		the information pertaining to education, n verified by the Contractor to be true and accurate. ridual proposed by the Contractor for the requirement
——Print	name of authorized individual & sign above	Date
2.	CERTIFICATION OF AVAILABILITY OF PER	RSONNEL
the p	ersons proposed in the quotation will be availab onable time from the date of issuance of the vali	to provide services under this Task Authorization, le to commence performance of the work within a d Task Authorization, or within the time specified in work in relation to the fulfillment of the requirement.
 Print	name of authorized individual & sign above	 Date
3.	CERTIFICATION OF STATUS OF PERSON	NEL
certif be pe Perio signe Failu	ies that it has permission from that individual to erformed under this TA and to submit his or her	
Print	name of authorized individual & sign above	Date
4.	CERTIFICATION OF LANGUAGE - ENGLIS	Н
are fl	Contractor certifies that the proposed resource(suent in English. The individual(s) proposed mus sh without any assistance and with minimal erro	
Print	name of authorized individual & sign above	 Date

# TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

PART 1 (completed by the Technical/Project Authority) / PART	IE 1 (complété par l	le Responsable technique / Chargé	é du projet)						
A. General Information / Informations générales									
Contract Number / Numéro du contrat :									
Contractor Name / Nom du Contracteur :									
Task Authorization (TA) No. / N° Commitment N de l'autorisation de tâches (AT) : l'engagement :									
B. For Amendments Only / Aux fins de modif	fication seule	<u>ment</u>							
Amendment No. / N° de la modification :									
Reason for the Amendment / Raison pour la modific	ation :								
C. TA Requirements / Exigences relatives à l'	AT_								
Required Resource(s) / Ressource(s) requise(s)									
Category / Catégorie	Level / Niveau	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Linguistic Profile / Profile linguistique	Required Level(s) of Security / Niveau(x) de sécurité requis					
					+				
Statement of Work (tasks, deliverables, reports, etc.)	/Énoncé des tr	avaux (tâches, livrables	s, rapports, etc.)						
Period of Services / Période de service:									
Initial Start Date / Date de début initiale :		Initial End Da	ite / Date de fin initiale :						
Extented End Date (See Reason for the Amendment)	) / Date de fin pı	rolongée (voir Raison p	our la modification) :						
Option To Extend Initial End Date / Option pour	prolonger la da	te de fin initiale		<b>L</b>					
Travel Requirement(s) / Exigence(s) de voyage :					***************************************				
Work Location(s) / Lieu(x) de travail :									
PART 2 (completed by the Contractor and/or the Technical/Project Au	thority) / PART	<b>IE 2</b> (complété par le Contract	eur et/ou le Responsable technique / Ch	argé du projet)					
A. Contractor Resource(s) / Ressource(s) du ( Note: once approved, only the following resources may provide services unde		is approuvée, seules les ressources	s suivantes peuvent fournir des services s	ous la présente AT.					

# TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

Name / Nom	Cate	gory / Catégo	rie	Level / Niveau	1	istic Profile / linguistique	Level of Securit de sécurité	y / Niveau	PWGSC Security File No. / Nº du dossier de sécurité TPSGC	
B. Estimated Cost / Coût es	stimatif									
Category / Catégor	rie	Level / Niveau		m Rate / <sup>-</sup> urnalier	Гаих	(days) / N	Level of Effort iveau d'effort atif (jours)	Total Cos estimatif		
-										
Name of the Control o			•		E	stimated Cos	t / Coût estimatif			
	Total	Estimated Trav	vel and Living	g Cost / C	Coût tota	l estimatif de	voyage et de vie	e \$0.00		
Taxe % applied / % de tax	xes appliquées				Applic	able Taxes / T	axes applicables		\$0.00	
				Tot	al Estima	ited Cost / Co	ût total estimatif		\$0.00	
PART 3 - TA APPROVA	L BY CANA	DA / PARI	TIE 3 - AP	PROB <i>i</i>	ATION	DE L'AT P	AR LE CANA	ADA		
By signing this TA, the authorized client certify(ies) that the content of this TA is i							le client autorisé et/o e AT est conforme au		ontractante de TPSGC lu contrat.	
The client's authorization limit is \$300,00 (including GST/HST) is in excess of this li Forwarded to the PWGSC Contracting Au	mit, the TA must be	signed by the aut		id (inclu	ant la TPS/1	TVH) dépasse cett			le l'AT et ses modificati client autorisé et trans	
Name of Authorized Client / Nom du c	lient autorisé D	ate			of Contrac rité contrac	ting Authority / Nation	lom de	Date		
Signature				Signa	ture					
PART 4 - CONTRACTO	R SIGNATU	RE / PART	IE 4 - SIG	NATUI	RE DU	CONTRAC	CTEUR			
Name and Title of individual authorize de la personne autorisée à signer au no			/ Nom et titre	Sigr	nature			Date		

# Appendix F to Annex A

# **Resources Assessment Criteria and Response Tables**

To facilitate resource assessment, the Contractor must prepare and submit a response to a draft Task Authorization using the tables provided in this Appendix. When completing the resource grids, the specific information which demonstrates the requested criteria and reference to the page number of the résumé should be incorporated so that the assessor can verify this information. The tables should not contain all the project information from the resume. Only the specific answer should be provided.

# 1.0 Mandatory Resource Assessment Criteria

The experience required for a Mandatory Resource Requirement must be demonstrated through one or multiple referenced projects and each referenced project must have a minimum duration of three (3) months in order to be accepted.

# 1.1 Programmer/Software Developer – Specialty in IBM InfoSphere Information Server (IIS) DataStage and QualityStage

Experience and Expertise of the Proposed Programmer/Software Developer – Specialty in IBM InfoSphere Information Server (IIS) – DataStage and QualityStage	
Name of proposed Resource:	
The Bidder MUST demonstrate that the Proposed Programmer/Software Developer – Specialty in IBM InfoSphere Information Server (IIS) – DataStage and QualityStage has:	

Criteria	Mandatory Requirement	Bidder's response				
		INSERT PAGE # OF RESUME	Met	Not Met		
M.1	A minimum of ten (10) years of experience, within the last twenty (20) years, performing the following tasks as a programmer/software developer:					
	Design detailed programs, flow charts, and diagrams indicating mathematical computation and sequence of machine operations necessary to copy and process data and print the results.					
	Translate detailed flow charts into coded machine instructions and confer with technical personnel in planning programs.					
	<ul> <li>Verify accuracy and completeness of programs by preparing sample data, and testing them by means of system acceptance test runs made by operating personnel.</li> </ul>					
	<ul> <li>Correct program errors by revising instructions or altering the sequence of operations.</li> </ul>					
	<ul> <li>Perform unit testing, and assemble specifications, flow charts, diagrams, layouts, programming and operating instructions to document applications for later modification or reference.</li> </ul>					

Experience and Expertise of the Proposed Programmer/Software Developer – Specialty in IBM InfoSphere Information Server (IIS) – DataStage and QualityStage
Name of proposed Resource:

The Bidder MUST demonstrate that the Proposed Programmer/Software Developer – Specialty in IBM InfoSphere Information Server (IIS) – DataStage and QualityStage has:

Criteria	Mandatory Requirement	Bidder's response				
		INSERT PAGE # OF RESUME	Met	Not Met		
M.2	A minimum of three (3) years of experience, within the last ten (10) years, working as a programmer/software developer developing solutions using IIS DataStage or QualityStage to prepare, cleanse, and standardize data for Master Data Management (MDM) consumption in large scale projects (project value of \$6 million or greater) at an enterprise level with multiple stakeholders (greater than 2).					

# 1.2 Programmer/Software Developer – Specialty in IBM Master Data Management (MDM) – Java Development

Experience and Expertise of the Proposed Programmer/Software Developer – Specialty in IBM Master Data Management (MDM) – Java Development	
Name of proposed Resource:	
The Bidder MUST demonstrate that the Proposed Programmer/Software Developer – Specialty in IBM Master Data Management (MDM) – Java Development has:	

Criteria	Mandatory Requirement	Bidder's response			
		INSERT PAGE # OF RESUME	Met	Not Met	
M.1	at least ten (10) years of experience, within the last twenty (20) years, performing the following tasks as a programmer/software developer:				
	Design detailed programs, flow charts, and diagrams indicating mathematical computation and sequence of machine operations necessary to copy and process data and print the results.				
	Translate detailed flow charts into coded machine instructions and confer with technical personnel in planning programs.				
	<ul> <li>Verify accuracy and completeness of programs by preparing sample data, and testing them by means of system acceptance test runs made by operating personnel.</li> </ul>				
	<ul> <li>Correct program errors by revising instructions or altering the sequence of operations.</li> </ul>				
	<ul> <li>Perform unit testing, and assemble specifications, flow charts, diagrams, layouts, programming and operating instructions to document applications for later modification or reference.</li> </ul>				

Experience and Expertise of the Proposed Programmer/Software Developer – Specialty in IBM Master Data Management (MDM) – Java Development
Name of proposed Resource:

The Bidder MUST demonstrate that the Proposed Programmer/Software Developer – Specialty in IBM Master Data Management (MDM) – Java Development has:

Criteria	Mandatory Requirement	Bidder's response			
		INSERT PAGE # OF RESUME	Met	Not Met	
M.2	A minimum of three (3) years of experience, within the last ten (10) years, working as a Java programmer/software developer developing IBM Master Data Management (MDM)* solutions, aligned with a Service Oriented Architecture (SOA), in large scale projects (project value of \$6 million or greater) at an enterprise level with multiple stakeholders (greater than 2).				
	*Or previous versions or instances.				

# 1.3 Programmer/Software Developer – Speciality in pME (probabilistic Matching Engine) – Matching algorithm development

Experience and Expertise of the Proposed Programmer/Software Developer – Specialty in IBM pME (probabilistic Matching Engine) – Matching algorithm development	-
Name of proposed Resource:	
The Bidder MUST demonstrate that the Proposed Programmer/Software Developer – Specialty in IBM pME (probabilistic Matching Engine) – Matching algorithm development has:	

Criteria	Mandatory Requirement	Bidder's re	esponse	)
		INSERT PAGE # OF RESUME	Met	Not Met
M.1	a minimum of ten (10) years of experience, within the last twenty (20) years, performing the following tasks as a programmer/software developer:			
	Design detailed programs, flow charts, and diagrams indicating mathematical computation and sequence of machine operations necessary to copy and process data and print the results.			
	Translate detailed flow charts into coded machine instructions and confer with technical personnel in planning programs.			
	<ul> <li>Verify accuracy and completeness of programs by preparing sample data, and testing them by means of system acceptance test runs made by operating personnel.</li> </ul>			
	<ul> <li>Correct program errors by revising instructions or altering the sequence of operations.</li> </ul>			
	<ul> <li>Perform unit testing, and assemble specifications, flow charts, diagrams, layouts, programming and operating instructions to document applications for later modification or reference.</li> </ul>			

Experience and Expertise of the Proposed Programmer/Software Developer – Specialty in IBM pME (probabilistic Matching Engine) – Matching algorithm development	
Name of proposed Resource:	
The Bidder MUST demonstrate that the Proposed Programmer/Software Developer – Specialty in IBM pME (probabilistic Matching Engine) – Matching algorithm development	:

Criteria	Mandatory Requirement	Mandatory Requirement Bidder's response		е	
		INSERT PAGE # OF RESUME	Met	Not Met	
M.2	A minimum of three (3) years of experience, within the last ten (10) years, working as a programmer/software developer developing IBM Master Data Management (MDM)* based solutions, aligned with a Service Oriented Architecture (SOA), in large scale projects (project value of \$6 million or greater) at an enterprise level with multiple stakeholders (greater than 2).				
	*Or previous versions or instances.				

#### 1.4 Programmer/Software Developer – Specialty in IBM InfoSphere Identity Insight (ISII)

Experience and Expertise of the Proposed Programmer/S in IBM InfoSphere Identity Insight (ISII)	Software Developer – Specialty
Name of proposed Resource:	
The Bidder MUST demonstrate that the Proposed Progra Specialty in IBM InfoSphere Identity Insight (ISII) has:	mmer/Software Developer –

Criteria	Mandatory Requirement	Bidder's r	esponse	)
		INSERT PAGE # OF RESUME	Met	Not Met
M.1	A minimum of ten (10) years of experience, within the last twenty (20) years, performing the following tasks as a programmer/software developer:			
	<ul> <li>Design detailed programs, flow charts, and diagrams indicating mathematical computation and sequence of machine operations necessary to copy and process data and print the results.</li> <li>Translate detailed flow charts into coded machine instructions and confer with technical personnel in planning programs.</li> <li>Verify accuracy and completeness of programs by preparing sample data, and testing them by means of system acceptance test runs made by operating personnel.</li> <li>Correct program errors by revising instructions or altering the sequence of operations.</li> <li>Perform unit testing, and assemble specifications, flow charts, diagrams, layouts, programming and operating instructions to document applications for later modification or reference.</li> </ul>			
M.2	A minimum of three (3) years of experience, within the last ten (10) years, working as a programmer/software developer developing IBM InfoSphere Identity Insight (ISII)* solutions, aligned with a Service Oriented Architecture (SOA), in large scale projects (project value of \$6 million or greater) at an enterprise level with multiple stakeholders (greater than 2).			
	*Or previous versions or instances.			

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# 1.5 Programmer/Software Developer – Specialty in IBM Global Name Management (GNM)

Experience and Expertise of the Proposed Programmer/Software Developer – Specialty in IBM Global Name Management (GNM)	
Name of proposed Resource:	
The Bidder MUST demonstrate that the Proposed Programmer/Software Developer –	

Criteria	Mandatory Requirement	Bidder's response		1
		INSERT PAGE # OF RESUME	Met	Not Met
M.1	A minimum of ten (10) years of experience, within the last twenty (20) years, performing the following tasks as a programmer/software developer:			
	Design detailed programs, flow charts, and diagrams indicating mathematical computation and sequence of machine operations necessary to copy and process data and print the results.			
	Translate detailed flow charts into coded machine instructions and confer with technical personnel in planning programs.			
	<ul> <li>Verify accuracy and completeness of programs by preparing sample data, and testing them by means of system acceptance test runs made by operating personnel.</li> </ul>			
	Correct program errors by revising instructions or altering the sequence of operations.			
	<ul> <li>Perform unit testing, and assemble specifications, flow charts, diagrams, layouts, programming and operating instructions to document applications for later modification or reference.</li> </ul>			

Experience and Expertise of the Proposed Programmer/Software Developer – Specialty in IBM Global Name Management (GNM)	
Name of proposed Resource:	

The Bidder MUST demonstrate that the Proposed Programmer/Software Developer – Specialty in IBM Global Name Management (GNM) has:

Criteria	Mandatory Requirement	Bidder's response			
		INSERT PAGE # OF RESUME	Met	Not Met	
M.2	A minimum of three (3) years of experience, within the last ten (10) years, working as a programmer/software developer developing IBM Global Name Manager (GNM) solutions, aligned with a Service Oriented Architecture (SOA), in large scale projects (project value of \$6 million or greater) at an enterprise level with multiple stakeholders (greater than 2).				

#### 1.6 Application/Software Architect – Specialty in IBM Master Data Management (MDM) Server

Experience and Expertise of the Proposed Application/Software Architect – Specialty in IBM Master Data Management (MDM) Server
Name of proposed Resource:
The Bidder MUST demonstrate that the Proposed Application/Software Architect – Specialty in IBM Master Data Management (MDM) Server has:

Criteria	Mandatory Requirement	Bidder's response		
		INSERT PAGE # OF RESUME	Met	Not Met
M.1	A minimum of ten (10) years of experience, within the last twenty (20) years, performing the following tasks as an application/software architect:			
	<ul> <li>Develop technical architectures, frameworks and strategies, either for an organization or for a major application area, to meet the business and application requirements.</li> </ul>			
	<ul> <li>Identify the policies and requirements that drive out a particular solution.</li> </ul>			
	<ul> <li>Analyse and evaluate alternative technology solutions to meet business problems.</li> </ul>			
	<ul> <li>Ensures the integration of all or key aspects of technology solutions.</li> </ul>			
	<ul> <li>Monitor industry trends to ensure that solutions fit with government and industry directions for technology.</li> </ul>			
	<ul> <li>Analyse functional requirements to identify information, procedures and decision flows.</li> </ul>			
	<ul> <li>Evaluate existing procedures and methods, identify and document database content, structure, and application sub-systems, and develop data dictionary.</li> </ul>			
	<ul> <li>Define and document interfaces of manual to automated operations within application sub- systems, to external systems and between new and existing systems.</li> </ul>			
	Define input and output sources, including detailed plan for technical design phase.			

Experience and Expertise of the Proposed Application/Software Architect – Specialty in IBM Master Data Management (MDM) Server
Name of proposed Resource:
The Bidder MUST demonstrate that the Proposed Application/Software Architect –

Criteria	Mandatory Requirement	Bidder's response			
		INSERT PAGE # OF RESUME	Met	Not I	
M.2	a minimum of three (3) years of experience, within the last ten (10) years, working as an application/software architect on the design,				

Omena	mundatory requirement	Didder 3 response		
		INSERT PAGE # OF RESUME	Met	Not Met
M.2	a minimum of three (3) years of experience, within the last ten (10) years, working as an application/software architect on the design, prototyping, components integration and oversight, as part of an IBM Master Data Management (MDM)* large scale (project value of \$6 million or greater) solution implementation, aligned with a Service Oriented Architecture (SOA), at an enterprise level with multiple stakeholders (greater than 2) with 20 million records or more.  *Or previous versions or instances.			

# 1.7 Application/Software Architect – Specialty in IBM InfoSphere Information Server (IIS) DataStage and QualityStage

Experience and Expertise of the Proposed Application/Software Architect – Specialty in IBM Infosphere Information Server (IIS) DataStage and QualityStage
Name of proposed Resource:
The Bidder MUST demonstrate that the Proposed Application/Software Architect – Specialty in IBM Infosphere Information Server (IIS) DataStage and QualityStage has:

Criteria	BM Infosphere Information Server (IIS) DataStage ar eria Mandatory Requirement	Bidder's response		
		INSERT PAGE # OF RESUME	Met	Not Met
M.1	A minimum of ten (10) years of experience, within the last twenty (20) years, performing the following tasks as an application/software architect:			
	<ul> <li>Develop technical architectures, frameworks and strategies, either for an organization or for a major application area, to meet the business and application requirements.</li> </ul>			
	Identify the policies and requirements that drive out a particular solution.			
	Analyse and evaluate alternative technology solutions to meet business problems.			
	Ensures the integration of all or key aspects of technology solutions.			
	Monitor industry trends to ensure that solutions fit with government and industry directions for technology.			
	Analyse functional requirements to identify information, procedures and decision flows.			
	<ul> <li>Evaluate existing procedures and methods, identify and document database content, structure, and application sub-systems, and develop data dictionary.</li> </ul>			
	<ul> <li>Define and document interfaces of manual to automated operations within application sub- systems, to external systems and between new and existing systems.</li> </ul>			
	Define input and output sources, including detailed plan for technical design phase.			
	<ul> <li>Identify and document system specific standards relating to programming, documentation and testing, covering program libraries, data dictionaries, naming conventions, etc.</li> </ul>			

	ce and Expertise of the Proposed Applicat re Information Server (IIS) DataStage and C		Special	y in IBM
Name of	proposed Resource:			
	er MUST demonstrate that the Proposed A fosphere Information Server (IIS) DataStag		itect – S	Specialty
Criteria	Mandatory Requirement	Bidder's re	esponse	<b>&gt;</b>
		INSERT PAGE # OF RESUME	Met	Not Met
M.2	A minimum of three (3) years of experience, within the last ten (10) years, working as an			

application/software architect, on the design, prototyping, components integration and oversight, as part of an IBM InfoSphere Information Server DataStage or QualityStage large scale (project value of \$6 million or greater) solution implementation at an enterprise level with

multiple stakeholders (greater than 2).

#### 1.8 Application/Software Architect – Specialty in IBM InfoSphere Identity Insight (ISII)

Experience and Expertise of the Proposed Application/Software Architect – Specialty in IBM InfoSphere Identity Insight (ISII)
Name of proposed Resource:

The Bidder MUST demonstrate that the Proposed Application/Software Architect – Specialty in IBM InfoSphere Identity Insight (ISII) has:

Criteria	Mandatory Requirement	Bidder's response		
		INSERT PAGE # OF RESUME	Met	Not Met
M.1	A minimum of ten (10) years of experience, within the last twenty (20) years, performing the following tasks as an application/software architect:			
	<ul> <li>Develop technical architectures, frameworks and strategies, either for an organization or for a major application area, to meet the business and application requirements.</li> </ul>			
	<ul> <li>Identify the policies and requirements that drive out a particular solution.</li> </ul>			
	<ul> <li>Analyse and evaluate alternative technology solutions to meet business problems.</li> </ul>			
	Ensures the integration of all or key aspects of technology solutions.			
	<ul> <li>Monitor industry trends to ensure that solutions fit with government and industry directions for technology.</li> </ul>			
	<ul> <li>Analyse functional requirements to identify information, procedures and decision flows.</li> </ul>			
	<ul> <li>Evaluate existing procedures and methods, identify and document database content, structure, and application sub-systems, and develop data dictionary.</li> </ul>			
	<ul> <li>Define and document interfaces of manual to automated operations within application sub- systems, to external systems and between new and existing systems.</li> </ul>			
	Define input and output sources, including detailed plan for technical design phase.			
	<ul> <li>Identify and document system specific standards relating to programming, documentation and testing, covering program libraries, data dictionaries, naming conventions, etc.</li> </ul>			

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Experience and Expertise of the Proposed Application/Software Architect – Specialty in IBM InfoSphere Identity Insight (ISII)
Name of proposed Resource:

The Bidder MUST demonstrate that the Proposed Application/Software Architect – Specialty in IBM InfoSphere Identity Insight (ISII) has:

Criteria	Mandatory Requirement	Bidder's response		
		INSERT PAGE # OF RESUME	Met	Not Met
M.2	A minimum of two (2) years of experience, within the last eight (8) years, working as an application/software architect on the design, prototyping, components integration and oversight, as part of an IBM InfoSphere Identity Insight (ISII)* large scale project (project value of \$6 million or greater) solution implementation, aligned with a Service Oriented Architecture (SOA), at an enterprise level with multiple stakeholders (greater than 2).  *Or previous versions or instances.			

#### 1.9 Business System Analyst – Specialty in IBM Master Data Management (MDM) - Data Governance

Experience and Expertise of the Proposed Business Systems Analyst – Specialty in IBM Master Data Management (MDM) - Data Governance
Name of proposed Resource:
The Ridder MUST demonstrate that the Proposed Rusiness Systems Analyst Specialty

The Bidder MUST demonstrate that the Proposed Business Systems Analyst – Specialty in IBM Master Data Management (MDM) - Data Governance has:

Criteria	aster Data Management (MDM) - Data Gove Mandatory Requirement	Bidder's response			
		INSERT PAGE # OF RESUME	Met	Not Met	
M.1	A minimum of ten (10) years of experience, within the last twenty (20) years, performing the following tasks as a business system analyst:				
	<ul> <li>Establish Master Data policies and procedures to ensure data meets defined quality targets;</li> </ul>				
	<ul> <li>Establish the policies for setting up, maintaining, validating and cleansing party data;</li> </ul>				
	<ul> <li>Maintain changes to data process maps, document new processes and support ongoing audit requirement;</li> </ul>				
	<ul> <li>Act as subject matter expert and support projects to ensure that processes meet data policies and procedures best practices;</li> </ul>				
	<ul> <li>Assist teams in the creation of business rules, entities, party attributes;</li> </ul>				
	<ul> <li>Evaluate existing procedures and methods, identify and document items such as database content, structure, application subsystems, and develop data dictionary;</li> </ul>				
	<ul> <li>Review and analyse application data model and MDM data model;</li> </ul>				
	Identify and resolve data quality issues				
M.2	A minimum of three (3) years of experience, within the last eight (8) years, working as a business system analyst responsible for the Data Governance of a large scale MDM solution implementation (project value of \$6 million or greater) at an enterprise level with				
	multiple stakeholders (greater than 2).				

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#### 2.0 Point-Rated Resource Assessment Criteria:

The experience required for a Mandatory Resource Requirement should be demonstrated through one or multiple referenced projects and each referenced project should have a minimum duration of three (3) months in order to be accepted.

# 2.1 Programmer/Software Developer - Specialty in IBM InfoSphere Information Server (IIS) DataStage and QualityStage

Experience and Expertise of the Proposed Programmer/Software Developer - Specialty in IBM Information Server (IIS) DataStage and QualityStage	
Name of proposed Resource:	
The Bidder SHOULD demonstrate that the Proposed Programmer/Software Developer -	

		BIDDER'S RES	PONSE	
#	RATED CRITERIA	POINTS	DEMONSTRATED EXPERIENCE	INSERT PAGE # OF RESUME
R.1	Experience, within the last ten (10) years, working as an programmer/software developer developing solutions using IIS DataStage or QualityStage to prepare, cleanse, and standardize data for Master Data Management (MDM) consumption in large scale projects (project value of \$6 million or greater) at an enterprise level with multiple stakeholders (greater than 2).	15	<ul> <li>3+ to 4 years = 5 points</li> <li>4+ to 5 years = 10 points</li> <li>5+ years = 15 points</li> </ul>	

Experience and Expertise of the Proposed Programmer/Software Developer - S	pecialty in
IBM Information Server (IIS) DataStage and QualityStage	

Name	of	proposed	Resource:	

The Bidder SHOULD demonstrate that the Proposed Programmer/Software Developer - Specialty in IBM Information Server (IIS) DataStage and QualityStage has:

			BIDDER'S RESPONSE		
#	RATED CRITERIA	POINTS	DEMONSTRATED EXPERIENCE	INSERT PAGE #	
R.2	Experience, within the last ten (10) years, working as a programmer/software developer on large scale projects (project value of \$6 million or greater) with an IBM Integration Bus (IIB) – Enterprise Service Bus (ESB)* component that required an integration with one or more of the following products:  • IBM Operational Decision Manager (ODM)* Standard or Advance  • IBM InfoSphere Identity Insight (ISII)*  • IBM Master Data Management (MDM)*  • IBM Global Name Manager (GNM)  • IBM InfoSphere Information Server DataStage or QualityStage  • IBM Business Process Management (BPM)* Advanced	15	<ul> <li>1 to 2 years = 5 points</li> <li>2+ to 3 years = 10 points</li> <li>3+ years = 15 points</li> </ul>		

Experience and Expertise of the Proposed Programmer/Software Developer - Specialty in	1
IBM Information Server (IIS) DataStage and QualityStage	

Name	of p	roposed	Resource:	

The Bidder SHOULD demonstrate that the Proposed Programmer/Software Developer - Specialty in IBM Information Server (IIS) DataStage and QualityStage has:

			BIDDER'S RESPONSE	
#	RATED CRITERIA	POINTS	DEMONSTRATED EXPERIENCE	INSERT PAGE #
R.3	Experience, within the last ten (10) years, working as a programmer/software developer on projects with an ESB component for a government* client.  *Government may include the Federal, Provincial or Municipal Government. The Government of Canada includes any department, agency, board of the Government of Canada or a Crown corporation.	5	<ul> <li>1 to 2 years = 1 points</li> <li>2+ to 3 years = 3 points</li> <li>3+ years = 5 points</li> </ul>	
	Maximum available points	35		
	Minimum points required	21		

# 2.2 Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java Development

Experience and Expertise of the Proposed Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) – Java Development	
Name of proposed Resource:	
The Bidder SHOULD demonstrate that the Proposed Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) – Java Development has:	

			BIDDER'S RES	PONSE
#	RATED CRITERIA	POINTS	DEMONSTRATED EXPERIENCE	INSERT PAGE # OF RESUME
R.1	In addition to M2, experience, within the last ten (10) years, working as a Java programmer/software developer developing IBM Master Data Management (MDM)* solutions, aligned with a Service Oriented Architecture (SOA), in large scale projects (project value of \$6 million or greater) at an enterprise level with multiple stakeholders (greater than 2).	15	<ul> <li>3+ to 4 years = 5 points</li> <li>4+ to 5 years = 10 points</li> <li>5+ years = 15 points</li> </ul>	

Experience and Expertise of the Proposed Programmer/Software Developer - Specialty	ı in
IBM Master Data Management (MDM) – Java Development	

Name of proposed Resource:	
----------------------------	--

The Bidder SHOULD demonstrate that the Proposed Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) – Java Development has:

		BIDDER'S RESPONSE		
#	RATED CRITERIA	POINTS	DEMONSTRATED EXPERIENCE	INSERT PAGE #
R.2	Experience, within the last ten (10) years, working as a programmer/software developer on large scale projects (project value of \$6 million or greater) with a Master Data Management (MDM)* component with integration of one or more of the following products:  • IBM Enterprise Service Bus (ESB)* • IBM DataStage or QualityStage	15	<ul> <li>1 to 2 years = 5 points</li> <li>2+ to 3 years = 10 points</li> <li>3+ years = 15 points</li> </ul>	
R.3	*Or previous versions or instances  Experience, within the last ten (10) years, working as a programmer/software developer on projects with an MDM component for a government client.  *Government may include the Federal, Provincial or Municipal Government. The Government of Canada includes any department, agency, board of the Government of Canada or a Crown corporation.	5	<ul> <li>1 to 2 years = 1 points</li> <li>2+ to 3 years = 3 points</li> <li>3+ years = 5 points</li> </ul>	
	Maximum available points	35		
	Minimum points required	21		

# 2.3 Programmer/Software Developer - Specialty in pME (probabilistic Matching Engine) – Matching algorithm development

Experience and Expertise of the Proposed Programmer/Software Developer - Specialty in pME (probabilistic Matching Engine) – Matching algorithm development
Name of proposed Resource:
The Bidder SHOULD demonstrate that the Proposed Programmer/Software Developer - Specialty in pME (probabilistic Matching Engine) – Matching algorithm development has:

			BIDDER'S RES	PONSE
#	RATED CRITERIA	POINTS	DEMONSTRATED EXPERIENCE	INSERT PAGE # OF RESUME
R.1	Experience, within the last ten (10) years, working as a programmer/software developer configuring the probabilistic and deterministic engines within an IBM Master Data Management (MDM)* solution implementation, in large scale projects (project value of \$6 million or greater) at an enterprise level with multiple stakeholders (greater than 2).	15	<ul> <li>1 to 2 years = 5 points</li> <li>2+ to 3 years = 10 points</li> <li>3+ years = 15 points</li> </ul>	

Experience and Expertise of the Proposed Programmer/Software Developer -	Specialty in
pME (probabilistic Matching Engine) – Matching algorithm development	-

Name	of	proposed	Resource:	

The Bidder SHOULD demonstrate that the Proposed Programmer/Software Developer - Specialty in pME (probabilistic Matching Engine) – Matching algorithm development has:

			BIDDER'S RESPONSE		
#	RATED CRITERIA	POINTS	DEMONSTRATED EXPERIENCE	INSERT PAGE #	
R.2	Experience, within the last ten (10) years, working as a programmer/software developer on a large scale project (project value of \$6 million or greater) with an MDM* component with integration of one or more of the following products:  • IBM Integration Bus (IIB) – Enterprise Service Bus (ESB)*  • IBM InfoSphere Information Server DataStage or QualityStage	15	<ul> <li>1 to 2 years = 5 points</li> <li>2+ to 3 years = 10 points</li> <li>3+ years = 15 points</li> </ul>		
R.3	*Or previous versions or instances.  Experience, within the last ten (10) years, working as a programmer/software developer on projects with an MDM component for a government* client.  *Government may include the Federal, Provincial or Municipal Government. The Government of Canada includes any department, agency, board of the Government of Canada or a Crown corporation.	5	<ul> <li>1 to 2 years = 1 points</li> <li>2+ to 3 years = 3 points</li> <li>3+ years = 5 points</li> </ul>		
	Maximum available points	35			
	Minimum points required	21			

#### 2.4 Programmer/Software Developer - Specialty in IBM Infosphere Identity Insight (ISII)

Experience and Expertise of the Proposed Programmer/Software Developer - Specialty in IBM Infosphere Identity Insight (ISII)	
Name of proposed Resource:	
The Bidder SHOULD demonstrate that the Proposed Programmer/Software Developer - Specialty in IBM Infosphere Identity Insight (ISII) has:	

		BIDDER'S RESPONSE		
#	RATED CRITERIA	POINTS	DEMONSTRATED EXPERIENCE	INSERT PAGE # OF RESUME
R.1	In addition to M2, experience, within the last ten (10) years, working as a programmer/software developer developing IBM InfoSphere Identity Insight (ISII)* solutions, aligned with a Service Oriented Architecture (SOA), in large scale projects (project value of \$6 million or greater) at an enterprise level with multiple stakeholders (greater than 2).  *Or previous versions or instances.	15	<ul> <li>3+ to 4 years = 5 points</li> <li>4+ to 5 years = 10 points</li> <li>5+ years = 15 points</li> </ul>	

Experience and Expertise of the Proposed Programmer/Software Developer - Specialty in IBM Infosphere Identity Insight (ISII)
Name of proposed Resource:

The Bidder SHOULD demonstrate that the Proposed Programmer/Software Developer - Specialty in IBM Infosphere Identity Insight (ISII) has:

			BIDDER'S RESI	PONSE
#	RATED CRITERIA	POINTS	DEMONSTRATED EXPERIENCE	INSERT PAGE #
R.2	Experience, within the last ten (10) years, working as a programmer/software developer on large scale projects (project value of \$6 million or greater) with an IBM InfoSphere Identity Insight (ISII)* component with integration of one or more of the following products:  • IBM Operational Decision Manager (ODM)* Standard or Advanced • IBM Integration Service Bus (IIB) – Enterprise Service Bus (ESB)* • IBM Master Data Management(MDM)*	1	<ul> <li>1 to 2 years = 5 points</li> <li>2+ to 3 years = 10 points</li> <li>3+ years = 15 points</li> </ul>	
R.3	*Or previous versions or instances.  Experience, within the last ten (10) years, working as a programmer/software developer on projects with a relationship analytical tool for a government* client.  *Government may include the Federal, Provincial or Municipal Government. The Government of Canada includes any department, agency, board of the Government of Canada or a Crown corporation.	5	<ul> <li>1 to 2 years = 1 points</li> <li>2+ to 3 years = 3 points</li> <li>3+ years = 5 points</li> </ul>	
	Maximum available points	35		1
	Minimum points required	21		

# 2.5 Programmer/Software Developer - Specialty in IBM Global Name Management (GNM)

Experience and Expertise of the Proposed Programmer/Software Developer - Specialty in IBM Global Name Management (GNM)	
Name of proposed Resource:	
The Bidder SHOULD demonstrate that the Proposed Programmer/Software Developer -	

		BIDDER'S RES	PONSE	
#	RATED CRITERIA	POINTS	DEMONSTRATED EXPERIENCE	INSERT PAGE # OF RESUME
R.1	In addition to M2, experience, within the last ten (10) years, working as a programmer/software developer developing IBM Global Name Manager (GNM) solutions, aligned with a Service Oriented Architecture (SOA), in large scale projects (project value of \$6 million or greater) at an enterprise level with multiple stakeholders (greater than 2).	15	<ul> <li>3+ to 4 years = 5 points</li> <li>4+ to 5 years = 10 points</li> <li>5+ years = 15 points</li> </ul>	

Experience and Expertise of the Proposed Programmer/Software Developer - S	Specialty i	in
IBM Global Name Management (GNM)		

ame of proposed Resource:	
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The Bidder SHOULD demonstrate that the Proposed Programmer/Software Developer - Specialty in IBM Global Name Management (GNM) has:

		BIDDER'S RES	PONSE	
#	RATED CRITERIA	POINTS	DEMONSTRATED EXPERIENCE	INSERT PAGE #
R.2	Experience, within the last ten (10) years, working as a programmer/software developer on a large scale project or initiative (value of \$10 million or greater) with a GNM component with integration of one or more of the following products:  • IBM Operational Decision Manager (ODM)* Standard or Advanced  • IBM InfoSphere Identity Insight (ISII)*  • IBM Master Data Management (MDM)*  • IBM Integration Bus (IIB) — Enterprise Service Bus (ESB)*  • IBM InfoSphere Information Server DataStage or QualityStage  • IBM Business Process Management (BPM)*	15	<ul> <li>1 to 2 years = 5 points</li> <li>2+ to 3 years = 10 points</li> <li>3+ years = 15 points</li> </ul>	

Experience and Expertise of the Proposed Programmer/Software Developer - Specialty in IBM Global Name Management (GNM)	
Name of proposed Resource:	

The Bidder SHOULD demonstrate that the Proposed Programmer/Software Developer - Specialty in IBM Global Name Management (GNM) has:

		BIDDER'S RESPONSE		
#	RATED CRITERIA	POINTS	DEMONSTRATED EXPERIENCE	INSERT PAGE #
R.3	Experience, within the last ten (10) years, working as a programmer/software developer on projects with a Global Name Management (GNM) component for a government* client.  *Government may include the Federal, Provincial or Municipal Government. The Government of Canada includes any department, agency, board of the Government of Canada or a Crown corporation.	5	<ul> <li>1 to 2 years = 1 points</li> <li>2+ to 3 years = 3 points</li> <li>3+ years = 5 points</li> </ul>	
	Maximum available points	35		
	Minimum points required	21		

#### 2.6 Application/Software Architect – Specialty in IBM Master Data Management (MDM) Server

Experience and Expertise of the Proposed Application/Software Architect – Specialty in IBM Master Data Management (MDM) Server
Name of proposed Resource:
The Bidder SHOULD demonstrate that the Proposed Application/Software Architect – Specialty in IBM Master Data Management (MDM) Server has:

		Bidder's Res	PONSE	
#	RATED CRITERIA	POINTS	DEMONSTRATED EXPERIENCE	INSERT PAGE #
R.1	In addition to M2, experience, within the last ten (10) years, working as an application/software architect on the design, prototyping, components integration and oversight, as part of an IBM Master Data Management (MDM)* large scale (project value of \$6 million or greater) solution implementation, aligned with a Service Oriented Architecture (SOA), at an enterprise level with multiple stakeholders (greater than 2) with 20 million records or more.	15	<ul> <li>3+ to 4 years = 5 points</li> <li>4+ to 5 years = 10 points</li> <li>5+ years = 15 points</li> </ul>	

Experience and Expertise of the Proposed Application/Software Architect – Specialty in IBM
Master Data Management (MDM) Server

Name	of pr	oposed	Resource:	

The Bidder SHOULD demonstrate that the Proposed Application/Software Architect – Specialty in IBM Master Data Management (MDM) Server has:

		BIDDER'S RES	PONSE	
#	RATED CRITERIA	POINTS	DEMONSTRATED EXPERIENCE	INSERT PAGE # OF RESUME
R.2	Experience, as an application/software architect, within the last ten (10) years, performing the integration of IBM MDM* with one or more of the following IBM products:  • IBM Business Process Management (BPM)* Advanced • IBM IIS* – DataStage or Quality Stage • IBM Integration Bus (IIB) – Enterprise Service Bus (ESB)*	15	<ul> <li>1 to 2 years = 5 points</li> <li>2+ to 3 years = 10 points</li> <li>3+ years = 15 points</li> </ul>	
	*Or previous versions or instances.			

Experience and Expertise of t	e Proposed Applic	ation/Software A	Architect – S	pecialty in IBM
Master Data Management (MD	VI) Server			

Name of proposed Resource	
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The Bidder SHOULD demonstrate that the Proposed Application/Software Architect – Specialty in IBM Master Data Management (MDM) Server has:

		BIDDER'S RESPONSE		
#	RATED CRITERIA	POINTS	DEMONSTRATED EXPERIENCE	INSERT PAGE #
R.3	Experience, as an application/software architect, within the last ten (10) years, in the development of security requirements* of an IBM MDM** implementation that required integration with one or more of the following COTS:  • IBM Operational Decision Manager (ODM)** Standard or Advanced • IBM InfoSphere Identity Insight (ISII)** • IBM Integration Bus (IIB) – Enterprise Service Bus (ESB)** • IBM Global Name Manager (GNM) • IBM InfoSphere Information Server DataStage or QualityStage • IBM Business Process Management (BPM)** Advanced  *Security requirements include the integration of MDM with other products part of a solution and alignment with security frameworks, security policies, and guidelines.	15	<ul> <li>1 to 2 years = 5 points</li> <li>2+ to 3 years = 10 points</li> <li>3+ years = 15 points</li> </ul>	

	Experience and Expertise of the Proposed Application/Software Architect – Specialty in IBM
	Master Data Management (MDM) Server
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Name of proposed Resource	
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The Bidder SHOULD demonstrate that the Proposed Application/Software Architect – Specialty in IBM Master Data Management (MDM) Server has:

			BIDDER'S RESPONSE	
#	RATED CRITERIA	POINTS	DEMONSTRATED EXPERIENCE	INSERT PAGE # OF RESUME
R.4	Experience, within the last ten (10) years, working as an application/software architect on projects with an MDM component for a government* client.  *Government may include the Federal, Provincial or Municipal Government. The Government of Canada includes any department, agency, board of the Government of Canada or a Crown corporation.	5	<ul> <li>1 to 2 years = 1 points</li> <li>2+ to 3 years = 3 points</li> <li>3+ years = 5 points</li> </ul>	
	Maximum available points	50		-
	Minimum points required	30		

# 2.7 Application/Software Architect – Specialty in IBM InfoSphere Information Server (IIS) DataStage and QualityStage

Experience and Expertise of the Proposed Application/Software Architect – Specialty in IBM InfoSphere Information Server (IIS) DataStage and QualityStage	
Name of proposed Resource:	
The Bidder SHOULD demonstrate that the Proposed Application/Software Architect –	

			BIDDER'S RES	PONSE
#	RATED CRITERIA	POINTS	DEMONSTRATED EXPERIENCE	INSERT PAGE # OF RESUME
R.1	In addition to M2, experience, within the last ten (10) years, working as an application/software architect on the design, prototyping, components integration and oversight, as part of an IBM InfoSphere Information Server DataStage or QualityStage large scale (project value of \$6 million or greater) solution implementation at an enterprise level with multiple stakeholders (greater than 2).	15	<ul> <li>3+ to 4 years = 5 points</li> <li>4+ to 5 years = 10 points</li> <li>5+ years = 15 points</li> </ul>	

Experience and Expertise of the Proposed Application/Software Architect – Specialty in IBN	A
nfoSphere Information Server (IIS) DataStage and QualityStage	

Name	of	propose	d	Resource:	; ;

The Bidder SHOULD demonstrate that the Proposed Application/Software Architect – Specialty in IBM InfoSphere Information Server (IIS) DataStage and QualityStage has:

			BIDDER'S RES	PONSE	
#	RATED CRITERIA	POINTS	DEMONSTRATED EXPERIENCE	INSERT PAGE # OF RESUME	
R.2	Experience, as an application/software architect, within the last ten (10) years, performing the integration of IBM DataStage or QualityStage with one or more of the following IBM products:  • IBM Business Process Management (BPM)* Advanced  • IBM Master Data Management(MDM)*  • IBM Integration Bus (IIB) — Enterprise Service Bus (ESB)*	15	<ul> <li>1 to 2 years = 5 points</li> <li>2+ to 3 years = 10 points</li> <li>3+ years = 15 points</li> </ul>		
	*Or previous versions or instances.				

Experience and Expertise of the Proposed Application/Software Architect – Specialty in IBI	Л
InfoSphere Information Server (IIS) DataStage and QualityStage	

Name	of	proposed	Resource:	

The Bidder SHOULD demonstrate that the Proposed Application/Software Architect – Specialty in IBM InfoSphere Information Server (IIS) DataStage and QualityStage has:

			BIDDER'S RESPONSE		
#	RATED CRITERIA	POINTS	DEMONSTRATED EXPERIENCE	INSERT PAGE # OF RESUME	
R.3	Experience, as an application/software architect, within the last ten (10) years, in the development of security requirements* of an IBM InfoSphere Information Server DataStage or QualityStage implementation that required an integration with one or more of the following COTS:  • IBM Operational Decision Manager (ODM)** Standard or Advanced • IBM InfoSphere Identity Insight (ISII)** • IBM Master Data Management(MDM)** • IBM Integration Bus (IIB) – Enterprise Service Bus (ESB)** • IBM Global Name Manager (GNM) • IBM Business Process Management (BPM)** Advanced  *Security requirements include the integration of IIS DS/QS with other products part of a solution and alignment with security frameworks, security policies, and guidelines.  **Or previous versions or instances.	15	<ul> <li>1 to 2 years = 5 points</li> <li>2+ to 3 years = 10 points</li> <li>3+ years = 15 points</li> </ul>		

	xperience and Expertise of the Proposed Application/Software Architect – Specialty in IBN	Λ
	foSphere Information Server (IIS) DataStage and QualityStage	
ı		

Name	of p	roposed	Resource:	

The Bidder SHOULD demonstrate that the Proposed Application/Software Architect – Specialty in IBM InfoSphere Information Server (IIS) DataStage and QualityStage has:

			BIDDER'S RESPONSE	
#	RATED CRITERIA	POINTS	DEMONSTRATED EXPERIENCE	INSERT PAGE #
R.4	Experience, within the last ten (10) years, working as an application/software architect on projects using an ETL product for a government* client.  *Government may include the Federal, Provincial or Municipal Government. The Government of Canada includes any department, agency, board of the Government of Canada or a Crown corporation.	5	<ul> <li>1 to 2 years = 1 points</li> <li>2+ to 3 years = 3 points</li> <li>3+ years = 5 points</li> </ul>	
Maximum available points		50		
	Minimum points required	30		

#### 2.8 Application/Software Architect – Specialty in IBM InfoSphere Identity Insight (ISII)

Experience and Expertise of the Proposed Application/Software Architect – Specialty in IBM InfoSphere Identity Insight (ISII)	
Name of proposed Resource:	
The Bidder SHOULD demonstrate that the Proposed Application/Software Architect –	

The Bidder SHOULD demonstrate that the Proposed Application/Software Architect – Specialty in IBM InfoSphere Identity Insight (ISII) has:

			BIDDER'S RESPONSE	
#	RATED CRITERIA	POINTS	DEMONSTRATED EXPERIENCE	INSERT PAGE #
₹.1	In addition to M2, experience within the last eight (8) years, working as an application/software architect on the design, prototyping, components integration and oversight, as part of an IBM InfoSphere Identity Insight (ISII)* large scale project (project value of \$6 million or greater) solution implementation, aligned with a Service Oriented Architecture (SOA), at an enterprise level with multiple stakeholders (greater than 2).	15	<ul> <li>2+ to 3 years = 5 points</li> <li>3+ to 4 years = 10 points</li> <li>4+ years = 15 points</li> </ul>	

Experience	and Expertise	of the Proposed	d Application/Software	Architect -	Specialty in IBM
InfoSphere	Identity Insight	t (ISII)			

Name	of propo	sed Resour	ce:	
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The Bidder SHOULD demonstrate that the Proposed Application/Software Architect – Specialty in IBM InfoSphere Identity Insight (ISII) has:

			BIDDER'S RESPONSE	
#	RATED CRITERIA	POINTS	DEMONSTRATED EXPERIENCE	INSERT PAGE # OF RESUME
R.2	Experience, as an application/software architect, within the last eight (8) years, performing the integration of IBM InfoSphere Identity Insight with one or more of the following IBM products:  • IBM Master Data Management(MDM)  • IBM Integration Bus (IIB) — Enterprise Service Bus (ESB)	15	<ul> <li>1 to 2 years = 5 points</li> <li>2+ to 3 years = 10 points</li> <li>3+ years = 15 points</li> </ul>	

Experience	and Expertise of	the Proposed	Application/Software	Architect -	Specialty in IBN	
InfoSphere	Identity Insight (I	SII)				

Name of proposed Resource:	
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The Bidder SHOULD demonstrate that the Proposed Application/Software Architect – Specialty in IBM InfoSphere Identity Insight (ISII) has:

			BIDDER'S RESPONSE		
#	RATED CRITERIA	POINTS	DEMONSTRATED EXPERIENCE	INSERT PAGE # OF RESUME	
R.3	Experience, within the last eight (8) years, as an application/software architect in the development of security requirements* of an IBM InfoSphere Identity Insight (ISII)** implementation that required an integration with one or more of the following COTS:  • IBM Operational Decision Manager (ODM)** Standard or Advanced • IBM Master Data Management (MDM)**  • IBM Integration Bus (IIB) — Enterprise Service Bus (ESB)**  • IBM Global Name Manager (GNM)  • IBM InfoSphere Information Server DataStage or QualityStage  • IBM Business Process Management (BPM)** Advanced  *Security requirements include the integration of IBM InfoSphere Identity Insight with other products part of a solution and alignment with security frameworks, security policies, and guidelines.  *Or previous versions or instances.	15	<ul> <li>1 to 2 years = 5 points</li> <li>2+ to 3 years = 10 points</li> <li>3+ years = 15 points</li> </ul>		

Experience and Expertise of the Proposed Application/Software Architect – Specialty in IBM
InfoSphere Identity Insight (ISII)

The Bidder SHOULD demonstrate that the Proposed Application/Software Architect – Specialty in IBM InfoSphere Identity Insight (ISII) has:

			BIDDER'S RESPONSE	
#	RATED CRITERIA	POINTS	DEMONSTRATED EXPERIENCE	INSERT PAGE #
R.4	Experience, within the last ten (10) years, working as an application/software architect on projects with a relationship analytical tool for a government* client.  *Government may include the Federal, Provincial or Municipal Government. The Government of Canada includes any department, agency, board of the Government of Canada or a Crown corporation.	5	<ul> <li>1 to 2 years = 1 points</li> <li>2+ to 3 years = 3 points</li> <li>3+ years = 5 points</li> </ul>	
	Maximum available points	50		
	Minimum points required	30		

# 2.9 Business System Analyst – Specialty in IBM Master Data Management (MDM) - Data Governance

Experience and Expertise of the Proposed Business System Analyst – Specialty in IBM Master Data Management (MDM) - Data Governance	
Name of proposed Resource:	
The Bidder SHOULD demonstrate that the Proposed Business System Analyst – Specialty	in

The Bidder SHOULD demonstrate that the Proposed Business System Analyst – Specialty in IBM Master Data Management (MDM) - Data Governance has:

			BIDDER'S RESPONSE	
#	RATED CRITERIA	POINTS	DEMONSTRATED EXPERIENCE	INSERT PAGE # OF RESUME
R.1	In addition to M2, experience, within the last eight (8) years, working as a business system analyst responsible for the Data Governance of a large scale MDM solution implementation (project value of \$6 million or greater) at an enterprise level with multiple stakeholders (greater than 2).	15	<ul> <li>3+ to 4 years = 5 points</li> <li>4+ to 5 years = 10 points</li> <li>5+ years = 15 points</li> </ul>	

Experience and Expertise of the Proposed Business System Analyst – Specialty in IBM	
Master Data Management (MDM) - Data Governance	
Name of proposed Resource:	

The Bidder SHOULD demonstrate that the Proposed Business System Analyst – Specialty in IBM Master Data Management (MDM) - Data Governance has:

			BIDDER'S RESPONSE		
#	RATED CRITERIA	POINTS	DEMONSTRATED EXPERIENCE	INSERT PAGE # OF RESUME	
R.2	Experience, within the last eight (8) years, working as a business system analyst responsible for the Data Stewardship and working with an IBM MDM* Data Stewardship interface of a large scale (project value of \$6 million or greater) IBM MDM solution implementation at an enterprise level with multiple stakeholders (greater than 2).  *Or previous versions or instances	15	<ul> <li>2 to 3 years = 5 points</li> <li>3+ to 4 years = 10 points</li> <li>4+ years = 15 points</li> </ul>		
R.3	Experience, within the last ten (10) years, working as a business system analyst on projects that required the integration of an MDM component for a government* client.  *Government may include the Federal, Provincial or Municipal Government. The Government of Canada includes any department, agency, board of the Government of Canada or a Crown corporation.	5	<ul> <li>1 to 2 years = 1 points</li> <li>2+ to 3 years = 3 points</li> <li>3+ years = 5 points</li> </ul>		
	Maximum available points	35			
	Minimum points required	21			



Government of Canada Gouvernement du Canada

Contract Number / Numéro du contrat
1000322116 / 47060-152116
Security Classification / Classification de sécurité

SECURITY REQUIREMENTS CHECK LIST (SRCL)

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Security Classification / Classification de sécurité

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Government of Canada

Gouvernement du Canada

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Se	curity Classification / Classification	assification de sécurité	••••

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TBS/SCT 38	50-103(2004/12)	Security Classification / Classification	ssification de sécurité		

Canada

Gouvernement du Canada Contract Number / Numéro du contrat

Security Classification / Classification de sécurité

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TBS/SCT 350-103(2004/12)

Security Classification / Classification de sécurité

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Hien Kien Tsang		A/Director		CO.	X 29 0	<u></u>
Telephone No N° de téléphone	Facsimile No N° de	télécopieur	E-mail address - Adresse cour	riel	Osie Ava	15-2015
14. Organization Security Authority /	Responsable de la séc	urité de l'organ	isme	· ·	-	
Name (print) - Nom (en lettres moulé	es)	Title - Titre		Signature		
AHMED SALAH	:	Sewar	my specialist		5.6	.C. P
Telephone No. · N° de téléphone 343 - 25 (- → → -)	Facsimile No N° de		E-mail address - Adresse cour	riel	Date Della	08/17
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Name (print) - Nom (en lettres moulé	es)	Title - Titre		Signature		
Telephone No N° de téléphone	Facsimile No N° de	I télécopieur	E-mail address - Adresse co.	urriel	Date	Physich care investment and the care of th

TBS/SCT 350-103(2004/12)

Security Classification / Classification de sécurité

Canadä



Public Works and Government Services Canada

Travaux publics et Services gouvernementaux Canada

Purchasing Office - Bureau des achats: Informatics Professional Services - EL

Division/Services professionnels en informatique division EL.

4C2. Place du Portage

Gatineau Ouébec K1A 0S5

# CONTRACT AMENDMENT **MODIFICATION AU CONTRAT**

The referenced document is hereby amended: unless otherwise indicated, all other terms and conditions of the contract remain the same.

Ce document est par la présente modifié: sauf indication contraire, les modelités du contrat demeurent les mêmes.

The Vendor/Firm hereby accepts/acknowledges this amendment.

Le fournisseur/entrepreneur accepte la présente modification/en accusé réception,

MARK COLDHAM 07/10/2017

Name, title of person authorized to sign (type or print) Nom et titre du signataire autorisé (taper ou imprimer)

Return signed copy forthwith

Prière de retourner une copie dûment signée immédiatement

Comments - Commentaires

Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur

868346149PG0001 DONNA CONA INC. 106 Colonnade. Suite 100 Ottawa

Ontario K2E7L6

Canada

Title - Sujet Resource & Solution Based Amendment No. - N° Modif Contract No. - Nº du contrat 47060-152116/002/EL 001 Client Reference No. - N° de référence du client Date 2017-07-11 1000322116 Regulsition Reference No. - Nº de la demande 47060-152116 File No. - N° de dossier CCC No./N° CCC - FMS No./N° VME 615el.47060-152116 Financial Codes GST/HST Code(s) financier(s) TPS/TVH

F.O.B. - F.A.B. Destination

GST/HST - TPS/TVH

**Duty - Drolts** 

Included - Inclus

See Herein - Voir ci-inclus

Destination - of Goods, Services, and Construction: Destination - des blens, services et construction: CANADA BORDER SERVICES AGENCY (CBSA) 330 North River Road, Ontario, K1A 0L8

Involces - Original and two copies to be sent to: Factures - Envoyer l'original et deux copies à: Canada Border Service Agency Agence des services frontaliers du Canada vendors-fournisseurs@cbsa-asfc.gc.ca (Preferred) (National Invoice Reception Unit) 105 Rue McGill #250-01 Montreal Quebec H2Y 2E7

Address Enquirles to: - Adresser toutes questions à: Buyer Id - Id de l'acheteur 615el Ghaddab, Nabil Telephone No. - Nº de téléphone FAX No. - Nº de FAX

(819) 956-5419 ( ) )

Increase (Decrease) - Augmentation (Diminution)

Revised estimated cost Coût révisé estimatif \$3,145,716.00

Currency Type - Genre de devise

For the Minister - Pour le Ministre

Canada

Page 1 of - de 1



Public Works and Government Services Canada Travaux publics et Services gouvernementaux Canada

Purchasing Office - Bureau des achats:

Informatics Professional Services - EL

Division/Services professionnels en informatique - division EL

4C2, Place du Portage

Gatineau

Ouébec

K1A 0S5

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The Vendor/Firm hereby accepts/acknowledges this amendment.

Le fournisseur/entrepreneur accepte la présente modification/en accusé réception.

Signature

Date

Name, title of person authorized to sign (type or print) Nom et titre du signataire autorisé (taper ou imprimer)

Return signed copy forthwith

Prière de retourner une copie dûment signée immédiatement

**Comments - Commentaires** 

Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur

868346149PG0001 DONNA CONA INC. 106 Colonnade. Suite 100 Ottawa Ontario K2E7L6

Canada

Title - Sujet Resource & Solution Based Contract No. - N° du contrat Amendment No. - N° Modif 47060-152116/002/EL 001 Client Reference No. - N° de référence du client Date 2017-07-11 1000322116 Requisition Reference No. - N° de la demande 47060-152116 File No. - N° de dossier CCC No./N° CCC - FMS No./N° VME 615el.47060-152116 GST/HST **Financial Codes** Code(s) financier(s) TPS/TVH

F.O.B. - F.A.B. Destination

GST/HST - TPS/TVH

Duty - Droits

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See Herein - Voir ci-inclus

Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: CANADA BORDER SERVICES AGENCY (CBSA) 330 North River Road, Ontario, K1A 0L8

Invoices - Original and two copies to be sent to: Factures - Envoyer l'original et deux copies à:

Factures - Envoyer Foriginal et deux cop

Canada Border Service Agency

Agence des services frontaliers du Canada

vendors-fournisseurs@cbsa-asfc.gc.ca (Preferred)

(National Invoice Reception Unit)

105 Rue McGill #250-01

Montreal Quebec H2Y 2E7

Address Enquiries to: - Adresser toutes questions à: Ghaddab, Nabil		Buyer ld - ld de l'acheteur 615el
<b>Telephone No N° de téléphone</b> (819) 956-5419 ( )	FAX No N	° de FAX
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For the Minister - Pour le Ministre	blab	fi

ASFC - Divulgation en vertu de la loi sur l'Accès à l'Informa

This Contract Amendment is raised to modify the Annex C - Security Requirements Check List (SRCL) form and replace it with a fully signed one by all parties.

# 1. Modification to the Annex C - Security Requirements Check List (SRCL) form of the Contract, as follows:

DELETE

Annex C - Security Requirements Check List (SRCL) form, in its entirety; and

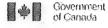
REPLACE

with the following:

(see the next page)

ALL OTHER TERMS AND CONDITIONS OF THE CONTRACT REMAIN THE SAME

### COMMON-PS-SRCL#19



Gouvernement du Canada Contract Number / Numero du contrat
47060 - 15 2 1/6 / O.C. 2 / EL

Security Classification (Classification de sécurité
UNICLASSIFIED

SECURITY REQUIREMENTS CHECK LIST (SRCL) LISTE DE VÉRIFICATION DES EXIGENCES RELATIVES À LA SÉCURITÉ (LVERS) PART A CONTRACTIFIEDRATION (PARTIE A INFORMATION CONTRACTUELLE

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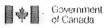
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6. c) is this à commercial courier or delivery requirement with no overnight storage?
S'agil-il d'un control de messagerie ou de livraison commerciale sans entreposage de nuit? Yes √ Non ÌÒω 7. a) Indicate the type of information that the supplier will be required to access / Indiquer le type d'information auquel le fournisseur devra avoir acces Canada 🗸 NATO / OTAN Foreign / Etranger 2. b) Release restrictions / Restrictions relatives à la diffusion No refease restrictions All NATO countries No teleasé restrictions Aubune restriction relative à la diffusion Tous les pays de l'OTAN Aucune restriction relative a la diffusion Not releasable À ne pas diffuser Restricted for Himstern Restricted to 11 male à Restricted to / Lando 6 Specify country(ies): / Préciser lets) pays : Specify country(ies) / Preciser le(s) pays Specify countryties). / Préciser lets) pays 7. c) Level of information / Niventi d'information PROTECTEDA NATO UNCLASSIFIED PROTECTED A 1 PROTEGE A NATO NON CLASSIFIE PROTEGE A PROTECTED B NATO RESTRICTED PROTECTED B ✓ PROTEGE B NATO DIFFUSION RESTREINTE PROTÉGÉ B PROTECTED C NATO CONFIDENTIAL PROTECTED C 1 PROTEGÉ C NATO CONFIDENTIEL PROTÈGÉ C CONFIDENTIAL NATO SECRET CONFIDENTIAL CONFIDENTIEL NATO SECRET CONFIDENTIEL SECRET COSMIC FOR SECRET SECRET 1 SECRET COSMIC TRES SECRET SECRET TOP SECRET TOP SECRET TRES SECRET TRÉS SECRET TOP SECRET (SIGINT) TOP SECRET ISIGINT TRES SECRET (SIGINT) TRÉS SECRET (SIGNIT)

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Security Classification / Classification de sécurité
UNCLASSIFIED

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Gouvernement du Canada

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PART D. AUTHORIZATION / PARTIE D. AUTORIS					
13 Organization Project Authority / Chargé de projet de	e l'organisme	V2	11.		
Name (punt) · Nom (en lettres montoes)	Title - Titre		Signature	المحاولة	7
Robert Pencareter Felephone No N de létéphone Passimile No 1		Leach SPMMD E-mail addless - Adresse cour		t Zi	TI 1 K 2 . 7
393-291-5669 14 Organization Security Authority / Responsable de la		Robert Remodes Co	ksu-uste	yeli	July 6 , 4/7
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Telephone No. N de Elèphone Facsimile No. I	f de lélécopieur	E-mail address - Adresse cour	nel	(Jane 10	L 1 0 2017
15 Are here additional instructions (e.g. Sectinty Guid Das instructions supplementaires (p. ex. Guide de			ellos jointes	?	No. Yes
16 Procurement Officer I Agent d'approvisionnement	11.74	against a construction of the construction of		<del></del>	January 3
Hanne (print): Nam jen lettres mäutäes) NABIL GHADDAB	Toto, Tare	ting Hatherity	Signathie/	W.C.	buchles
Telephone No - N de téléphone Facsanile No - I	l° de telécopieur	E-mail address - Adresse cou	rifel	Date	13 TO THE OWNER OF THE PROPERTY OF THE PROPERT
17 Centracting Security Authority / Autorité contractan	le en matière de ser	anne.			*****
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Jacqués Satimiur Contract Security Officer Contract Sécurity Division/Division des contrata sécu	më t	:	and the second s		

Contract Security ProgramProgramme de sécurité des contrats./
Public Services and Procurencent Canadal Services publics et Approvisionnement Canada
Jacques Saumur@hisgo-progsc.go.co
Totephone | Totephone 613-948-1732
Facsanile | Telecopieur 613-948-1712

TBS:SCT 350-103(2004/12)

Security Classification / Classification de securité
UNICLASSIFIED

Canada



Public Works and Government Services Canada Travaux publics et Services gouvernementaux

Purchasing Office - Bureau des achats:

Informatics Professional Services - EL

Division/Services professionnels en informatique - division EL

4C2, Place du Portage

Gatineau

Québec

K1A 0S5

# CONTRACT AMENDMENT MODIFICATION AU CONTRAT

The referenced document is hereby amended; unless otherwise indicated, all other terms and conditions of the contract remain the same.

Ce document est par la présente modifié; sauf indication contraire, les modalités du contrat demeurent les mêmes.

The Vendor/Firm hereby accepts/acknowledges this amendment.

Le fournisseur/entrepreneur accepte la présente

modification/enfocuse réception.

MARK BECUTIVE

Signature COLO HAM

Date Dec 20,201

Name, title of person authorized to sign (type or print) Nom et titre du signataire autorisé (taper ou imprimer)

Return signed copy forthwith

Prière de retourner une cople dûment signée immédiatement

Comments - Commentaires

Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur

868346149PG0001 DONNA CONA INC. 106 Colonnade. Suite 100 Ottawa Ontario K2E7L6

Canada

Title - Sujet Resource & Solution Based Contract No. - Nº du contrat Amendment No. - Nº Modif 47060-152116/002/EL 002 Client Reference No. - N° de référence du client Date 2017-12-20 1000322116 Regulsition Reference No. - Nº de la demande 47060-152116 File No. - N° de dossler CCC No./N° CCC - FMS No./N° VME 639el.47060-152116 GST/HST Financial Codes TPS/TVH Code(s) financier(s) F.O.B. - F.A.B. Destination GST/HST - TPS/TVH **Duty - Droits** Included - Inclus See Herein - Voir ci-inclus Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: CANADA BORDER SERVICES AGENCY (CBSA) 330 North River Road, Ontario, K1A 0L8 Involces - Original and two copies to be sent to: Factures - Envoyer l'original et deux copies à: Canada Border Service Agency Agence des services frontaliers du Canada vendors-fournisseurs@cbsa-asfc.gc.ca (Preferred) (National Invoice Reception Unit) 105 Rue McGill #250-01 Montreal Quebec H2Y 2E7

Address Enquiries to: - Adresser toute	Buyer Id - Id de l'acheteur 639el				
Villeneuve, Julie	FAX No N° de FAX				
Telephone No N° de téléphone	FAX NO N	de PAX			
(819) 420-5967 ( )	()-				
Increase (Decrease) - Augmentation (I	Diminution)				
\$4,194,288.00					
Revised estimated cost	Currency Type - Genre de devise				
Coût révisé estimatif					
\$7,340,004.00	CAD				

For the Minister - Pour le Ministre



Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur

002

639el

This Contract Amendment No.002 is raised in order to Exercise Option Period:

- 1. Amend the Revised Estimated Cost;
- 2. Amend the Contract Period; and
- 3. Amend the Contracting Authority.
- 1. On the first page of the contract, under Revised Estimated Cost:

DELETE:

\$3,145,716.00

INSERT:

\$7,340,004.00

# 2. At Article 6, under Contract Period:

**DELETE:** 

Article 6 In its entirety

INSERT:

### 6. Contract Period

- (a) Contract Period: The "Contract Period" is the entire period of time during which the Contractor is obliged to perform the Work, which includes:
  - (i) The "Initial Contract Period", which begins on the date the Contract is awarded and ends February 23, 2019.
  - (ii) The period during which the Contract is extended, if Canada chooses to exercise any option set out in the Contract.

# (b) Option to Extend the Contract:

- (i) The Contractor grants to Canada the irrevocable option to extend the term of the Contract by up to four additional one-year periods under the same terms and conditions. The Contractor agrees that, during the extended period of the Contract, it will be paid in accordance with the applicable provisions set out in the Basis of Payment.
- (ii) Canada may exercise this option at any time by sending a written notice to the Contractor before the expiry date of the Contract. The option may only be exercised by the Contracting Authority, and will be evidenced, for administrative purposes only, through a contract amendment.

# 3. At Article 7 (a) of the Contract, under Contracting Authority:

DELETE:

Part - Partie 2 of - de 2 / Page 1 of - de 2

Contract No. - N° du contrat (or Solicitation No. - N° de l'invitation) Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur

47060-152116/002/EL

002

639el

Name:

Nabil Ghaddab

Supply Specialist

Public Works and Government Services Canada

Acquisitions Branch

Directorate:

Space, Innovation and informatics Projects Directorate

Address:

11 Laurier Street, Gatineau, Québec

Telephone:

873-469-4984

Email:

nabil.ghaddab@tpsgc-pwgsc.gc.ca

INSERT:

Name:

Julie Villeneuve

Supply Specialist

STAMS / ITSPD / EL Division

Public Works and Government Services Canada

Address:

11 Laurier Street, Portage III, 4C2,

Gatineau, QC K1A 0S5

Telephone:

(819) 420-5967

E-mail address: Julie.villeneuve3@tpsqc-pwqsc.gc.ca

ALL OTHER TERMS AND CONDITIONS OF THE CONTRACT REMAIN THE SAME.



Public Works and Government Services Canada

Travaux publics et Services gouvernementaux Canada

Purchasing Office - Bureau des achats:

Informatics Professional Services - EL

Division/Services professionnels en informatique - division EL.

4C2, Place du Portage

Gatineau

Québec

K1A 0S5

# CONTRACT AMENDMENT MODIFICATION AU CONTRAT

The referenced document is hereby amended; unless otherwise indicated, all other terms and conditions of the contract remain the same.

Ce document est par la présente modifié: sauf indication contraire, les modalités du contrat demeurent les mêmes.

The Vendor/Firm hereby accepts/acknowledges this amendment.

Le fournisseur/entrepreneur accepte la présente modification/en accusé réception.

Signature

Vanwengerg

Name, title of person authorized to sign (type or print) Nom et titre du signataire autorisé (taper ou imprimer)

Return signed copy forthwith

Prière de retourner une copie dûment signée immédiatement

**Comments - Commentaires** 

Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur

868346149PG0001 DONNA CONA INC. 106 Colonnade. Suite 100 Ottawa Ontario K2E7L6

Canada

Title - Sulet Resource & Solution Based Contract No. - Nº du contrat Amendment No. - N° Modif 47060-152116/002/EL 003 Client Reference No. - N° de référence du client Date 1000322116 2019-01-24 Requisition Reference No. - N° de la demande 47060-152116 File No. - N° de dossier CCC No./N° CCC - FMS No./N° VME 639el.47060-152116 **Financial Codes** GST/HST Code(s) financier(s) TPS/TVH F.O.B. - F.A.B. Destination GST/HST - TPS/TVH **Duty - Droits** Included - Inclus See Herein - Voir ci-inclus Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: CANADA BORDER SERVICES AGENCY (CBSA) 330 North River Road, Ontario, K1A 0L8 Invoices - Original and two copies to be sent to: Factures - Envoyer l'original et deux copies à: Canada Border Service Agency Agence des services frontaliers du Canada vendors-fournisseurs@cbsa-asfc.gc.ca (Preferred) (National Invoice Reception Unit) 105 Rue McGill #250-01 Montreal Quebec H2Y 2E7 Address Enquirles to: - Adresser toutes questions à: Buyer Id - Id de l'acheteur Villeneuve, Julie 639el Telephone No. - N° de téléphone FAX No. - N° de FAX (613) 858-9487 ( ) Increase (Decrease) - Augmentation (Diminution) \$4,000,000.00 Revised estimated cost Currency Type - Genre de devise Coût révisé estimatif \$11,340,004.00 CAD For the Minister - Pour le Ministre Villeneuve, Julie 3 Digitally signed by Villeneuve, Julie 3 Date: 2019.01.25 10:01:08-05:00'



Contract No. - N° du contrat (or Solicitation No. - N° de l'invitation)

47060-152116/002/EL

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur

003

639el

This Contract Amendment No.003 is raised in order to Exercise Option Period:

1. Amend the Revised Estimated Cost; and

2. Amend the Contract Period.

1. On the first page of the contract, under Revised Estimated Cost:

**DELETE:** 

\$7,340,004.00

INSERT:

\$11,340,004.00

### 2. At Article 6, under Contract Period:

**DELETE:** 

Article 6 in its entirety

INSERT:

### 6. Contract Period

- (a) Contract Period: The "Contract Period" is the entire period of time during which the Contractor is obliged to perform the Work, which includes:
  - (i) The "Initial Contract Period", which begins on the date the Contract is awarded and ends February 23, 2020.
  - (ii) The period during which the Contract is extended, if Canada chooses to exercise any option set out in the Contract.

### (b) Option to Extend the Contract:

- (i) The Contractor grants to Canada the irrevocable option to extend the term of the Contract by up to three additional one-year periods under the same terms and conditions. The Contractor agrees that, during the extended period of the Contract, it will be paid in accordance with the applicable provisions set out in the Basis of Payment.
- (ii) Canada may exercise this option at any time by sending a written notice to the Contractor before the expiry date of the Contract. The option may only be exercised by the Contracting Authority, and will be evidenced, for administrative purposes only, through a contract amendment.

ALL OTHER TERMS AND CONDITIONS OF THE CONTRACT REMAIN THE SAME.

Part - Partie 2 of - de 2 / Page 1 of - de 2

Contract No. - N° du contrat (or Solicitation No. - N° de l'invitation) 47060-152116/002/EL Amd. No. - N° de la modif.

003

Buyer ID - Id de l'acheteur

639el



Public Works and Government Services Canada Travaux publics et Services gouvernementaux Canada

Purchasing Office - Bureau des achats:

Informatics Professional Services - EL

Division/Services professionnels en informatique - division EL

4C2, Place du Portage

Gatineau

Ouébec

K1A 0S5

# CONTRACT AMENDMENT MODIFICATION AU CONTRAT

The referenced document is hereby amended: unless otherwise indicated, all other terms and conditions of the contract remain the same.

Ce document est par la présente modifié: sauf indication contraire, les modalités du contrat demeurent les mêmes

The Vendor/Firm hereby accepts/acknowledges this amendment.

Le fournisseur/entrepreneur accepte la présente modification/en accusé réception.

Signature

Date

Name, title of person authorized to sign (type or print) Nom et titre du signataire autorisé (taper ou imprimer)

Return signed copy forthwith Prière de retourner une copie dûment signée immédiatement

Comments - Commentaires

Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur

868346149PG0001 DONNA CONA INC. 106 Colonnade. Suite 100 Ottawa Ontario K2E7L6

Canada

<b>Title - Sujet</b> Resource & Solution Based		
Contract No N° du contra 47060-152116/002/EL	t	Amendment No N° Modif
Client Reference No N° d 1000322116	e référence du client	Date 2019-12-20
Requisition Reference No. 47060-152116	- N° de la demande	+
File No N° de dossier	CCC No./N° CCC - F	MS No./N° VME
641el.47060-152116		
Financial Codes Code(s) financier(s)	•	GST/HS TPS/TVF
F.O.B F.A.B.		
Destination		
GST/HST - TPS/TVH	Duty - Droits	
Included - Inclus	See Herein - Voir ci-i	nclus
Destination - of Goods, Ser Destination - des biens, ser CANADA BORDER SERVI 330 North River Road, Onta	rvices et construction: CES AGENCY (CBSA)	
Invoices - Original and two Factures - Envoyer l'origina Canada Border Service Ager Agence des services frontalie vendors-fournisseurs@cbsa- (National Invoice Reception 105 Rue McGill #250-01	al et deux copies à: lecy ers du Canada asfc.gc.ca (Preferred)	

For the Minister - Pour le Ministre

Bastien, Josee Digitally signed by: Bastlen, Josee C = CA O Digitally signed by: Bastlen, Josee Digitally signed by: Bastlen, Josee Digitally signed by: Bastlen, Josee Digitally signed by: Bastlen, Josee Digitally signed by: Bastlen, Josee Digitally signed by: Bastlen, Josee Digitally signed by: Bastlen, Josee Digitally signed by: Bastlen, Josee Digitally signed by: Bastlen, Josee Digitally signed by: Bastlen, Josee Digita

Montreal Quebec H2Y 2E7

Canada

Page 1 of - de 1 000238

Contract No. - N° du contrat 47060-152116/002/EL

Amd. No. - N° de la modif. 004

Buyer ID - Id de l'acheteur 641el

This Contract Amendment No.004 is raised in order to Exercise Option Period and change the Contracting Authority:

1. Amend the Revised Estimated Cost:

- 2. Amend the Contract Period; and
- 3. Amend the Contracting Authority.

.....

### 1. On the first page of the contract, under Revised Estimated Cost:

DELETE: \$11,340,004.00

INSERT: \$15,534,292.00

# 2. At Article 6, under Contract Period:

DELETE: Article 6 in its entirety

INSERT:

### 6. Contract Period

- (a) Contract Period: The "Contract Period" is the entire period of time during which the Contractor is obliged to perform the Work, which includes:
  - (i) The "Initial Contract Period", which begins on the date the Contract is awarded and ends February 23, 2021.
  - (ii) The period during which the Contract is extended, if Canada chooses to exercise any option set out in the Contract.

### (b) Option to Extend the Contract:

- (i) The Contractor grants to Canada the irrevocable option to extend the term of the Contract by up to two (2) additional one-year periods under the same terms and conditions. The Contractor agrees that, during the extended period of the Contract, it will be paid in accordance with the applicable provisions set out in the Basis of Payment.
- (ii) Canada may exercise this option at any time by sending a written notice to the Contractor before the expiry date of the Contract. The option may only be exercised by the Contracting Authority, and will be evidenced, for administrative purposes only, through a contract amendment.

Contract No. - N° du contrat 47060-152116/002/EL Amd. No. - N° de la modif. 004

Buyer ID - Id de l'acheteur

641el

### 3. At Article 7 (a) of the Contract, under Contracting Authority:

**DELETE:** 

Name: Julie Villeneuve

**Supply Specialist** 

STAMS / ITSPD / EL Division

**Public Works and Government Services Canada** 

Address: 11 Laurier Street, Portage III, 4C2,

Gatineau, QC K1A 0S5

Telephone: (819) 420-5967

E-mail address: Julie.villeneuve3@tpsgc-pwgsc.gc.ca

**INSERT:** 

Name: Daniel Michaud

**Supply Specialist** 

STAMS / ITSPD / EL Division

**Public Works and Government Services Canada** 

Address: 10 wellington, Gatineau, QC K1A 0S5

Telephone: (613) 858-8483

E-mail address: daniel.michaud@tpsgc-pwgsc.gc.ca

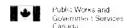
ALL OTHER TERMS AND CONDITIONS OF THE CONTRACT REMAIN THE SAME.

Travatix publics et Government Services Services gouvernmentaux Canada Canada

# **TASK AUTHORIZATION FORM** FORMULAIRE D'AUTORISATION DE TÂCHES

PART 1 (completed by the Technical Project Authority) / PARTIE 1 (complete not be Recognishle technique / Charad du project

A. General Information / Informa	ations génér	ales					
Contract Number / Numéro du contrat	t: 47060-152	116/001/EL					
Contractor Name / Nom du Contractei	ur : IBM	eren eren eren eren eren eren eren eren	r sammer mer gamen vagan regionerings scores vers en en en den der verbeliere de des viere de distribute de de				
Task Authorization (TA) No. / N° Commitment No. de l'autorisation de tâches (AT) : l'engagement :		3		Date of Issuance / D d'émission :	ate Response required b Réponse requise par	Response required by / Réponse requise par :	
2019003062	000335563	19	191160010 June 1, 2019		June 28, 2019		
B. For Amendments Only / Aux fi	ins de modif	ication seule	ment				
Amendment No. / Nº de la modificatio	n : 1						
Reason for the Amendment / Raison p	oour la modific	ation :			aga aman'an' na kaokantan' ao amin'ny faritr'i Nord-Marie Carlos (no ant-Marie Carlos (no an-Marie Carlos		
Time extension			organisticinen nationala apolationaria, quinter representational todo contra distributiva distributiva distributiva				
C. TA Requirements / Exigences	relatives à l'/	<u>\T</u>					
Required Resource(s) / Ressource(s) re	quise(s)	· · · · · · · · · · · · · · · · · · ·			T	1	
Category / Catégorie		Level / Niveau	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Linguistic Profile / Profile linguistique	Required Level(s) of Security Niveau(x) de sécurité requis		
Application/Software Architect - spe Integration Bus (IIB) - Enterprise Serv		3		English / Anglais	Secret		
Statement of Work (tasks, deliverables	s, reports, etc.)	/ Énoncé des tra	avaux (tâches, livrables	s, rapports, etc.)			
Please see the attached SOW for detail	ils pertaining to	the work bein	g completed under thi	is task authorization.			
Period of Services / Période de servi	ce:					<b></b>	
Initial Start Date / Date de début initial	le: Apr	ril 6, 2017	Initial End Da	te / Date de fin initiale :	May 31, 2019		
Extented End Date (See Reason for the	Amendment)	/ Date de fin pr	olongée (voir Raison p	our la modification) :	June 28, 2019		
Option To Extend Initial End Date	Option pour p	orolonger la dat	e de fin initiale				
Travel Requirement(s) / Exigence(s) de	voyage :	N/A					
Work Location(s) / Lieu(x) de travail :		333 North F	River Road, Ottawa, ON	l (National Capital Region)			
PART 2 (completed by the Contractor and/or the	+ 32 10	/DART	E 2	Paris Paris Control of the Control o	Signature project		
FART & (completed by the Contractor and/or the	rechnical/Project Aut	nority) / FANII	(complété par le Contracti	eur etrou le Responsable technique / Ch	arge ou projet)		



Travaux publics et Government Services Services gouvernementarix Canada Canada

# **TASK AUTHORIZATION FORM** FORMULAIRE D'AUTORISATION DE TÂCHES

Name / Nom	Category / Catégorie	Level / Niveau	_	Level of Security / Niveau de sécurité	PWGSC Security File No. / Nº du dossier de sécurité TPSGC	
	Application/Software Architect - specialty in IBM Integration Bus (IIB) - Enterprise Service Bus (ESB)	3	English / Anglais	Secret	93080390	+

B. Estimated Cost / Coût estimatif									
Category / Catégorie	Level / Niveau	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Cost / Coût estimatif					
+ lication/Software Architect - specialty in Integration Bus (IIB) - Enterprise Service Bus (ESB)	3			\$96,250.00					
	Estimated Cost / Coût estimatif								
Total	Total Estimated Travel and Living Cost / Coût total estimatif de voyage et de vie								
Taxe % applied / % de taxes appliquées	13.000	Applic	\$12,512.50						
		Total Estima	ated Cost / Coût total estimatif	\$108,762.50					

# PART 3 - TA APPROVAL BY CANADA / PARTIE 3 - APPROBATION DE L'AT PAR LE CANADA

En apposant sa signature sur l'AT, le client autorisé et/c atteste(nt) que le contenu de cette AT est conforme au	
Name of Contracting Authority / Nom de l'autorité contractante	Date
Signature	
	atteste(nt) que le contenu de cette AT est conforme au.  La limite d'autorisation du client est \$1,200,000.0 crsc (incluant la TPS/TVH) dépasse cette limite, l'AT doit être l'autorité contractante de TPSGC pour autorisation.  Name of Contracting Authority / Nom de l'autorité contractante

Name and Title of individual authorized to sign on behalf of the Contractor / Nom et titre de la personne autorisée à signer au nom de l'entrepreneur	Signature	Date	_



Travaux publics et Services gouvernementaux Canada

# TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

ART 1 (completed by the Technical/Project Authority)	PARTIE	T (complete pa	la Responsible technique/Charge	duprojat).	
A. General Information / Information	ns généra	<u>les</u>		(	
Contract Number / Numéro du contrat :	7060-1521	16/001/EL			
Contractor Name / Nom du Contracteur : [	вм				
Task Authorization (TA) No. / N° Comm de l'autorisation de tâches (AT) : l'enga	Date of Issuance / Da d'émission :	te Response required by / Réponse requise par :			
	35203		inancier : 1911-200-20	May 31, 2017	May 31, 2017
3. For Amendments Only / Aux fins o	le modific	cation seul	ement		
Amendment No. / Nº de la modification :					
Reason for the Amendment / Raison pour		tion :			
Amendment #1 - The CBSA Project Author note that this is in no way to be perceived	ity has dete	ermined that	the resources under TA	#2017002393 are no longer	r required for the project. Please
note that this is in no way to be perceived	as a negati	ive renection	Of the Services/deliverar	des work that have been pr	ovided to date by the resource.
C. TA Requirements / Exigences rela	tives à l'A	<u>.T</u>			
Required Resource(s) / Ressource(s) requis	e(s)		1		
Category / Catégorie		Level / Nivea	Estimated Level of Effort (days) / Niveau d'effort estimatif (Jours)	Linguistic Profile / Profile linguistique	Required Level(s) of Security / Niveau(x) de sécurité requis
Application/Software Architect - Special Operational Decision Manager (OD		3 3		English / Anglais	Secret
Programmer/Software Developer - Special Operational Decision Manager (OD		3		English / Anglais	Secret
Statement of Work (tasks, deliverables, re	ports, etc.)	/ Énoncé des	travaux (tâches, livrable	s, rapports, etc.)	
Please see the attached SOW for details p	ertaining to	the work be	eing completed under th	is task authorization.	
Period of Services / Période de service:			$\overline{}$		
Initial Start Date / Date de début initiale :	Ma	r 20, 2017	Initial End Da	ate / Date de fin initiale :	May 31, 2017
Extented End Date (See Reason for the An	nendment)	/ Date de fin	prolongée (voir Raison p	oour la modification) :	
Option To Extend Initial End Date / Op	otion pour p	orolonger la	date de fin initiale		
Travei Requirement(s) / Exigence(s) de vo	yage:	Travel no	ot required		
Work Location(s) / Lieu(x) de travail :		333 Nort	th River Road, Ottawa, Ol	N (National Capital Region)	
PART 2 (completed by the Confloring land of the tech	ilcaVProject Ali	₩₩, PAF	MEDIE MEDIE	aan moo enemanahen ahijdus (o	nage at most
A. Contractor Resource(s) / Ressour	ce(s) du C	ontracteu		•	

Name / Nom	Category / Catégorie	Level / Niveau			PWGSC Security File No. / Nº du dossier de sécurité TPSGC	
	Application/Software Architect - Specialty in IBM Operational Decision Manager (ODM)	3 \	English / Anglais	Şecret	95040936	
	Programmer/Software Developer - Specialty in IBM Operational Decision Manager (ODM)	3			95149716	

Category / Catégorie	Level / Niveau	Per Diem Rate / Taux Journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Cost / Coût estimatif
lication/Software Architect - Specialty in Operational Decision Manager (ODM)	3			\$118,675.00
Programmer/Software Developer - Specialty n IBM Operational Decision Manager (ODM)	3	magnitus varie India-Suma)		\$160,650.00
		Es	stimated Cost / Coût estimatif	\$279,325.00
Total	Estimated Trav	rel and Living Cost / Coût total	estimatif de voyage et de vie	\$0.00
Taxe % applied / % de taxes appliquées	13.000	Applica	able Taxes / Taxes applicables	\$36,312.25
		Total Estimat	ed Cost / Coût total estimatif	\$315,637.25

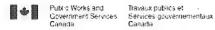
# PART 3. TA APPROVAL BY CANADA PARIJES JAPPROBATION DEL LA PARILE MADA By signing this TA, the authorized client authority and/or the PWGSC Contracting Authority certify(les) that the content of this TA is in accordance with the conditions of the Contract. The client's authorization limit is \$300,000.00 . When the value of a TA and its amendments (including GST/HST) is in excess of this limit, the TA must be signed by the authorized client and forwarded to the PWGSC Contracting Authority for authorization. The Client's authorization du client est \$300,000.00 . Lorsque la valeur de l'AT et ses modifications (incluant la TPS/TVH) dépasse cette limite, l'AT doit être signée par le client autorisé et transmise à l'autorité contractante de TPSGC pour autorisation. Name of Contracting Authority / Nom de l'autorité contractante Signature PART 4. GONTRACTORSIGNATURE CANADA PARIJES APPROBATION DE L'ATERICA CONTRACTURE CANADA PARIJES APPROBATION DE L'ATERICA CONTRACTURE CONTRACTURE CANADA PARIJES APPROBATION DE L'ATERICA CONTRACTURE CONTRA

PART 4 - CONTRACTOR SIGNATURE / PARTIE 4 - SIG	Natureduc	onhraghture	
Name and Title of individual authorized to sign on behalf of the Contractor / Nom et titre de la personne autorisée à signer au nom de l'entrepreneur	Signature		Date



A. General Information / Inform	ations généra	ales				
Contract Number / Numéro du contr	at: 47060-152	116/001/EL				
Contractor Name / Nom du Contracte	eur : IBM		***************************************			
	Commitment No l'engagement :			Date of Issuance / D d'émission :	ate Response required Réponse requise p	,
2017002393	1000335203	11	911-200-20	Jul 31, 2017	Jul 31, 2017	
B. For Amendments Only / Aux	fins de modif	ication seule	ment			
Amendment No. / № de la modificati	on : 2					***************************************
Reason for the Amendment / Raison	pour la modific	ation :		A ALMANA A ALA		
Amendment #2 - This amendment w			date of TA #2017002393	to January 31st, 2018 with	n no increase in dollar value	е.
C. TA Requirements / Exigences	relatives à l'	\T				
Required Resource(s) / Ressource(s) r	equise(s)				_	
Category / Catégorie Lev		Level / Niveau	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Linguistic Profile / Profile linguistique	Required Level(s) of Secur Niveau(x) de sécurité requ	, 1
Application/Software Architect - Sp Operational Decision Manage		3		English / Anglais	Secret	
	rogrammer/Software Developer - Specialty in IBM Operational Decision Manager (ODM)			English / Anglais	Secret	
Statement of Work (tasks, deliverable	es, reports, etc.)	/ Énoncé des t	ravaux (táches, livrables	s, rapports, etc.)		
Please see the attached SOW for det	ails pertaining to	o the work bei	ng completed under thi	is task authorization.		
Period of Services / Période de serv	vice:					
Initial Start Date / Date de début initi	ale : Ma	r 20, 2017	Initial End Da	ite / Date de fin initiale :	Jan 31, 2018	
Extented End Date (See Reason for th	e Amendment)	/ Date de fin p	rolongée (voir Raison p	our la modification) :		
Option To Extend Initial End Date	/ Option pour p	orolonger la da	te de fin initiale			
Travel Requirement(s) / Exigence(s) d	le voyage :	voyage : Travel not required				
Work Location(s) / Lieu(x) de travail : 333 North River Road, Ottawa, ON (National Capital Region)						
PART 2 (completed by the Contractor and/or th	e Technical/Project Aut	hority) / PART	1E 2 (complété par le Contract	eur at/ou le Responsable technique / Ch	nargé du projeti	
	Sald are a sale	** n ESUSAGO		5 1		1."

Page 1 of 2



Name / Nom	Category / Catégorie	Level / Niveau	_	1	PWGSC Security File No. / № du dossier de sécurité TPSGC	
	Application/Software Architect - Specialty in IBM Operational Decision Manager (ODM)	3	English / Anglais	Secret	95040936	+
	Programmer/Software Developer - Specialty in IBM Operational Decision Manager (ODM)	3	English / Anglais	Secret	95149716	

Level /			
Niveau	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Cost / Coût estimatif
3			\$72,048.35
3			\$160,650.00
	E	stimated Cost / Coût estimatif	\$232,698.35
timated Trav	el and Living Cost / Coût tota	l estimatif de voyage et de vie	\$0.00
13.000	Applicable Taxes / Taxes applicables		\$30,250.79
	Total Estima	sted Cost / Coût total estimatif	\$262,949.14
	3 3 cimated Trav	3  Be stimated Travel and Living Cost / Coût total 13.000  Applic	3  Estimated Cost / Coût estimatif  timated Travel and Living Cost / Coût total estimatif de voyage et de vie

# PART 3 - TA APPROVAL BY CANADA / PARTIE 3 - APPROBATION DE L'AT PAR LE CANADA

· ~ ~	and the second s	
By signing this TA, the authorized client authority and/or the PWGSC Contracting Authority certify(les) that the content of this TA is in accordance with the conditions of the Contract.	En apposant sa signature sur l'AT, le client autorisé et/ atteste(nt) que le contenu de cette AT est conforme au	
The client's authorization limit is \$300,000.00. When the value of a TA and its amendments (including GST/HST) is in excess of this limit, the TA must be signed by the authorized client and forwarded to the PWGSC Contracting Authority for authorization.	La limite d'autorisation du client est \$300,000.00 . Lors (incluant la TP5/TVH) dépasse cette limite, l'AT doit êtr l'autorité contractante de TP5GC pour autorisation.	
Name of Authorized Client / Nom du client autorisé  Date  Date	Name of Contracting Authority / Nom de l'autorité contractante	Date
Signature Signature	Signature	

# PART 4 - CONTRACTOR SIGNATURE / PARTIE 4 - SIGNATURE DU CONTRACTEUR

<del></del>		
Name and Title of individual authorized to sign on behalf of the Contractor / Nom et titre de la personne autorisée à signer au nom de l'entrepreneur	Signature Signature	July 28, 2017

PART 1 (completed by the Technical/Project Authority) / PARTIE 1 (complete par le Responsable technique / Chargé du projet)

A. General Information / Informa	ations généra	ales				
Contract Number / Numéro du contra	t: 47060-152	116/001/EL				
Contractor Name / Nom du Contracte	ur : IBM				9,004.4. 6.11.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	
	ommitment No		inancial Coding / Code nancier :	Date of Issuance / D d'émission :	ate Response required b Réponse requise pa	
2017002393	000335203	1	1911-200-20		Aug 18, 2017	
B. For Amendments Only / Aux f	ins de modifi	ication seule	ement			
Amendment No. / Nº de la modificatio	on : 3		V-41 V-			
Reason for the Amendment / Raison p	oour la modifica	ation :				
Amendment #3 - The CBSA Project Au TA #2017002393 is required for an ad		termined that	the Programmer/Softwa	are Developer -Speciality in	n IBM ODM (Raffaele Cocucci	) unde
C. TA Requirements / Exigences	relatives à l'A	AT.				
Required Resource(s) / Ressource(s) re	quise(s)					
Category / Catégorie		Level / Niveau	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Linguistic Profile / Profile linguistique	Required Level(s) of Securit Niveau(x) de sécurité requis	- 1
Application/Software Architect - Spe Operational Decision Manager		1 3 English / Anglais Secret		Secret	+	
	ogrammer/Software Developer - Specialty in IBM Operational Decision Manager (ODM)			English / Anglais	Secret	
Statement of Work (tasks, deliverable	s, reports, etc.)	/ Énoncé des t	ravaux (tâches, livrables	s, rapports, etc.)		
Please see the attached SOW for deta	ils pertaining to	o the work bei	ng completed under thi	s task authorization.		
Period of Services / Période de servi	ice:			N. C.		
Initial Start Date / Date de début initia	le : Ma	r 20, 2017	Initial End Da	te / Date de fin initiale :	Jan 29, 2018	
Extented End Date (See Reason for the	e Amendment)	/ Date de fin p	prolongée (voir Raison p	our la modification) :		
Option To Extend Initial End Date	/ Option pour p	orolonger la da	ate de fin initiale		<u> </u>	
Travel Requirement(s) / Exigence(s) de voyage : Travel not required						
Work Location(s) / Lieu(x) de travail : 333 North River Road, Ottawa, ON (National Capital Region)						
PART 2 (completed by the Contractor and/or the	Technical/Project 4	horiny) / PAR1	TIE 2 (complete and comp	Avy ot for the Borness blanch		
****    *	reconical/Project Auti	nority) / FAN	Complété par le Contract	eur et/ou le Responsable technique / Ch	argé du projet)	

Page 1 of 2



Name / Nom	Category / Catégorie	Level / Niveau	Linguistic Profile / Profile linguistique	Level of Security / Niveau de sécurité	PWGSC Security File No. / Nº du dossier de sécurité TPSGC	
100	Application/Software Architect - Specialty in IBM Operational Decision Manager (ODM)	3	English / Anglais	Secret	95040936	+
	Programmer/Software Developer - Specialty in IBM Operational Decision Manager (ODM)	3	English / Anglais	Secret	95149716	

Category / Catégorie	Level / Niveau	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Cost / Coût estimatif
+ lication/Software Architect - Specialty in 1 Operational Decision Manager (ODM)	3			\$72,048.35
Programmer/Software Developer - Specialty n IBM Operational Decision Manager (ODM)	3			\$390,915.00
		E	Estimated Cost / Coût estimatif	\$462,963.35
Total E	stimated Trav	rel and Living Cost / Coût tota	al estimatif de voyage et de vie	\$0.00
Taxe % applied / % de taxes appliquées	13.000	Applic	cable Taxes / Taxes applicables	\$60,185.24
		Total Estima	ated Cost / Coût total estimatif	\$523,148.59

# PART 3 - TA APPROVAL BY CANADA / PARTIE 3 - APPROBATION DE L'AT PAR LE CANADA

By signing this TA, the authorized client authority and/or the PWGSC Contracting Authority	
certify(ies) that the content of this TA is in accordance with the conditions of the Contract.	

The client's authorization limit is \$300,000.00 . When the value of a TA and its amendments (including GST/HST) is in excess of this limit, the TA must be signed by the authorized client and forwarded to the PWGSC Contracting Authority for authorization.

Aug 18/17

En apposant sa signature sur l'AT, le client autorisé et/ou l'autorité contractante de TPSGC atteste(nt) que le contenu de cette AT est conforme aux conditions du contrat.

La limite d'autorisation du client est \$300,000.00. Lorsque la valeur de l'AT et ses modifications (incluant la TPS/TVH) dépasse cette limite, l'AT doit être signée par le client autorisé et transmise à l'autorité contractante de TPSGC pour autorisation.

Hicham Laassouli for N. Ghaddab

18 August 2017

Name of Contracting Authority / Nom de

l'autorité contractante

Date

laassouli, hicham Dictory Signed by Jassoult, Indian Dictory Signed By Jassoult, Indian Dictory Conference on State 2017, 08,18 10 4158-07000

Signature

Signature

# PART 4 - CONTRACTOR SIGNATURE / PARTIE 4 - SIGNATURE DU CONTRACTEUR

Carlos	Santos,	Authorized	Signatory

Name and Title of individual authorized to sign on behalf of the Contractor / Nom et titre de la personne autorisée à signer au nom de l'entrepreneur

Mark fint

August 28, 2017

Date



PART 1 (completed by the Technical/Project A	uthority) / PARTI	E 1 (complété)	par le Responsable technique / Charg	4 du projet)	
A. General information / Infor	mations généra	ales			
Contract Number / Numéro du cont	trat: 47060-152	116/001/EL			
Contractor Name / Nom du Contrac	teur : IBM				
Task Authorization (TA) No. / N° de l'autorisation de tâches (AT) :	Commitment No	o. / Nº de	Financial Coding / Code financier :	Date of Issuance / D d'émission :	ate Response required by / Réponse requise par :
2017002393	1000335203		1911-200-20	Mar 14, 2017	Mar 16, 2017
B. For Amendments Only / Aux	c fins de modif	ication seu	lement		
Amendment No. / № de la modifica	tlon :	***************************************			
Reason for the Amendment / Raiso	n pour la modific	ation:			and the second s
The state of the s	7   50				
C. TA Requirements / Exigence	es relatives à l'	\T			
Required Resource(s) / Ressource(s)					
Category / Catégori		Level / Nive	Estimated Level of Effort (days) / Niveau d'effort estimatif (Jours)		Required Level(s) of Security / Niveau(x) de sécurité requis
Application/Software Architect - S Operational Decision Mana		3		English / Anglais	Secret
Programmer/Software Developer - Specialty in IBM Operational Decision Manager (OCM)				Secret	
Statement of Work (tasks, deliveral	oles, reports, etc.)	/ Énoncé de	s travaux (tâches, livrable	es, rapports, etc.)	
Please see the attached 50W for de	etails pertaining t	o the work b	eing completed under ti	nis task authorization.	
Period of Services / Période de se	rvice:				
initial Start Date / Date de début ini	tiale: Ma	x 20, 2017 .	initial End D	ate / Date de fin initiale :	Jul 31, 2017
Extented End Date (See Reason for	the Amendment)	/ Date de fir	n prolongée (voir Raison	pour la modification) :	
Option To Extend Initial End Da	te / Option pour	prolonger la	date de fin initiale	and the state of t	
Travel Requirement(s) / Exigence(s)	) de voyage :	Travel n	ot required		
Work Location(s) / Lieu(x) de travail		333 Nor	th River Road, Ottawa, O	N (National Capital Region)	
PART	e permentants			Anorabouterasson but the squery printers (1228), (1241), (1241)	
A. Contractor Resource(s) / Re	ssource(s) du (	Contracteu	and the second s		

Page 1 of 2

Travaux publics et Services gouvernementaux Canada

# TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

Name / Nom	Category / Catégorie	<b>Level /</b> Niveau	Linguistic Profile / Profile linguistique	Level of Security / Niveau	PWGSC Security File No. / Nº du dossier de sécurité TPSGC	
	Application/Software Architect Specialty in IBM Operational Decision Manager (ODM)	3 3	English / Anglais	Secret	95040936	
	Programmer/Software Developer - Specialty in IBM Operational Decision Manager (ODM)	3	English / Anglais	Secret	95149716	

B. Estimated Cost / Coût estimatif				
Category / Catégorie	Level / Niveau	Per Diem Rate / Taux Journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Cost / Coût estimatif
lication/Software Architect - Specialty in Operational Decision Manager (ODM)	3			\$118,675.00
Programmer/Software Developer - Specialty in IBM Operational Decision Manager (ODM)	3			\$160,650.00
			stimated Cost / Coût estimatif	\$279,325.00
Total	Estimated Trav	vel and Living Cost / Coût tota	l estimatif de voyage et de vie	\$0.00
Taxe % applied / % de taxes appliquées	13.000	Applic	able Taxes / Taxes applicables	\$36,312,25
		Total Estima	ted Cost / Coût total estimatif	\$315,637.25

# PART 3 - TA APPROVAL BY CANADA / PARTIE 3 - APPROBATION DE L'AT PAR LE CANADA

By signing this TA, the authorized client authority and/or the PWGSC Contracting Authority	En apposant sa signature sur l'AT, le client autorisé et/ou l'autorité contractante de TPSGC
certify(les) that the content of this TA is in accordance with the conditions of the Contract.	atteste(nt) que le contenu de cette AT est conforme aux conditions du contrat.
The client's authorization limit is \$300,000.00 . When the value of a TA and its amendments (including GST/HST) is in excess of this limit, the TA must be signed by the authorized client and forwarded to the PWGSC Contracting Authority for authorization.  **Robert Perwarden** Name of Authorized Client / Nom du client autorisé**  **Date**  **Date**  **Authorized Client / Nom du client autorisé**  **Signature**  **Signature**  **Transport of TA and its amendments (including the signed by the authorized client and provided the signed by the authorized client and provided the signed by the authorized client and provided the signed by the authorized client and provided the signed by the authorized client and provided the signed by the authorized client and provided the signed by the authorized client and provided the signed by the authorized client and provided the signed by the authorized client and provided the signed by the authorized client and provided the signed by the authorized client and provided the signed by the authorized client and provided the signed by the authorized client and provided the signed that are signed to signed the sig	La limite d'autorisation du client est \$300,000.00 . Lorsque la valeur de l'AT et ses modifications (incluent la TPS/TVH) dépasse cette limite, l'AT doit être signée par le client autorisé et transmise à l'autorité contractante de TPSGC pour autorisation.    ABT

					NTRACTEUR

	Maria Santa Cara da Ca
CARLOS SANTOS, AUTHORIZED SIGNATORY ASKILLE AMILE	MAR-16- 2017
Name and Title of individual authorized to sign on behalf of the Contractor / Nom et titre   Signature	Date
de la personne autorisée à signer au nom de l'entrepreneur	
	A A

# Application/Software Architect

### Title

Application/Software Architect (Level 3) and Programmer/Software Developer (Level 3) – Operations Decision Manager (ODM) for the Entry Exit Project.

# Background

The Canada Border Services Agency (CBSA) is undertaking an ambitious agenda of change in support of various Beyond the Border initiatives and Border modernization efforts. The Information, Science and Technology Branch (ISTB) support these efforts with oversight and alignment of major capital projects and the associated information technology solutions. Traditional IT functions have been augmented with program directorates that drive business transformation efforts and alignment of business solutions in portfolios for Travelers, Commercial, Common and Corporate projects.

In order to advance the planning, development and implementation of the Agency's transformation agenda, ISTB is implementing an enterprise approach to the management of its portfolio of systems, projects and services.

In support of the above, the Travellers Project Portfolio Directorate (TPPD) has undertaken the Entry/Exit Entry/Exit is responsible for the development of a key Government of Canada commitment under the Canada US Border Action plan, to create a Canadian entry and exit information system which will, ultimately, provide a valuable new source of information with potential benefits for security, law enforcement and program. Key deliverables of the Entry/Exit (E/E) Project rely on the ability to calculate the duration of time inside of Canada or outside to Canada as well as to determine when a traveller has overstayed their authorized period of stay. The delivery of the Entry/Exit and IAPI projects is dependent on the components found in the SOA.

Entry/Exit I will leverage ODM to deliver the following:

- 1. Calculating duration of complete Entry to Exit Events.
- 2. Calculating duration of complete Exit to Entry Events
- 3. Calculating duration of open Exit Events.
- 4. Calculating duration of open Entry Events.
- 5. Creation of an indicator that a traveller may have overstayed their authorized period of stay.

### Objective

To acquire professional services for one Application/Software Architect (Level 3) and one Programmer/Software Developer (Level 3) to perform the tasks and deliverables below.

### Tasks and Deliverables

The Contractor must provide the professional services to perform the following tasks and deliver the following project deliverables, first in draft format, to be followed by a final product incorporating the Entry Exit project manager (or their delegate's) feedback). It is the Contractor's responsibility to

Page **1** of **5** 1000335203 – Draft SOW

# CBSA Travellers Identity Resolution and Reconciliation

identify the resources and the respective level of effort required to perform the following tasks and complete the following deliverables.

Task#	Task
Analysis	
<b>.</b>	Define automated decision making using ODM Standard (IBM COTS) including rule harvesting and development, rule flow development, rule application testing and deployment
2.	Define automated triggering of business processes and notifications based on event pattern matching using ODM Advanced including event pattern design and development, event application testing and deployment
3.	Perform performance optimization and troubleshooting
4.	Provide best practices and development guidelines
5.	Responsible for the establishment, maintenance and execution of rules management policies and workflow management, proactively maintain the integrity and accuracy of CBSA rules management system
6.	Meet with stakeholders in the traveller's program portfolio and the CBSA operations to gather and document the business requirements for effective rules development
7.	Establish rules and execution to ensure the results meets defined targets
8.	Plan, analyse and document results from unit, component and other related test plans for business rule applications
9.	Design and Develop:  Business Object Models (BOM); and  eXecution Object Models (XOM)
10.	Identify and resolve rules processing issues and document
11.	Develop developer training material
Developn	ient .
12.	Develop deployable business rule applications (including BOMs and XOMs as required) developed to CBSA standards using CBSA development infrastructure and processes
13.	Create Preliminary BOM design
14.	Complete BOM design
15.	Author rules in ODM
16.	Document Best Practice guidelines for troubleshooting BOM (as part of rules harvesting document)
17.	Complete the rules harvesting document with an executable validation model
18.	Complete the rules framework for the Travellers portfolio
19.	Author business rules in ODM as required
20.	Develop First draft of Business Rules in ODM
21.	Create a catalog of all the rules in ODM for the Traveller's portfolio
22.	Identify and document the data source(s) for the rules to be processed; delivered via final summary identifying any gaps at that time
Testing	
23.	Define and document Preliminary Test plans for the rules within ODM

## CBSA Travellers Identity Resolution and Reconciliation

24.	Define and document Final Test plans within ODM
25.	Conduct tests
26.	Document Test Results
27.	Review, comment and develop recommendations according to best practices on the ODM-related System Use Cases and system requirements

## **Deliverables Schedule**

The following suggested delivery schedule should be considered by the Contractor in the development of their project plan (including the assignment of the resources and their respective level of effort). CBSA is willing to accept revisions to this schedule if justified by the Contractor.

Deliverable #	Deliverable	Working Days from Contract Award
1,	Preliminary BOM design	20 days from
		contract award
2.	Complete BOM design and created	40 days from
		contract award
3.	Rules authored in ODM	40 days from
4		contract award
4.	Rules Harvesting <sup>1</sup> document, including:	40 days from
	a. an executable validation model	contract award
	b. Best practice guidelines for troubleshooting BOM	,
5.	Rules Framework <sup>2</sup> for the Travellers portfolio	40 days from
minda a stata do da		contract award
6.	Authored business rules in ODM	As required
7.	First draft of Business Rules in ODM	15 days from
calonated a resident and reside		contract award
8.	Catalog of all the rules in ODM for the Traveller's	20 days from
Lance company	portfolio	contract award
9.	Document containing the data source(s) for the rules to be	20 days from
,	processed; delivered via final summary, identifying any	contract award
	gaps at that time	Contract award
10.	Preliminary test plans for the rules within ODM	20 days from
		contract award
11.	Final Test plans within ODM by	60 days from
dament, com		contract award
12.	Testing Results document	80 days contract
		award
13.	Recommendations document (with respect to the ODM-	20 days from
	related System Use Cases and system requirements)	contract award

Harvesting is the activity of gathering business rules, which includes rule discovery and analysis.

<sup>&</sup>lt;sup>2</sup> A Rules Framework is an event-controlled runtime environment in which the system processes certain rules. You can assign any number of rules to each event, whereby a rule normally consists of a Boolean expression and an action.

### **Technical Environment**

As defined in Section 12 of the contract number 47060-152116/001/EL.

### Constraints

At no time and in no way is CBSA data to be removed from CBSA sites, nor will access to or from the Contractor's IT systems through the use of a session or ling (e.g. VPN) be permitted. The contractor must comply with CBSA internal security policies, directives, standards, and guidelines at all times during the contract.

The CBSA's working hours are between 07:00 to 18:00 Monday through Friday, except for Statutory Holidays where Government Offices are closed. These are core hours and are not representative of the duration of a Contractor's work day. The hours that the Contractor will work will be specified in the TA and are expected to be 7.5 hours daily, within the core hours. All proposed personnel must be available to work outside normal office hours during the duration of the Contract. The Technical/Project Authority will advise the Contractor as soon as possible of any required work outside standard working hours.

### Language

The proposed Resources will be required to perform the work in English. Every individual proposed in its Task Authorization will be fluent in English. The individual proposed must be able to communicate orally and in writing in English without any assistance and with minimal errors.

The resources must be able to perform the work and provide any deliverables in English.

## Reporting Requirements

The contractor(s) are expected to submit weekly accomplishments submitted with timesheets by end of day Friday for each week to the Entry Exit project manager electronically via email. Outlining what work was undertaken during the reporting period, what work is still outstanding and any issues, risks or concerns that may affect the contractor's ability to meet the deliverables or their listed due dates.

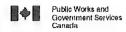
### Location of Work

The work is expected to be performed on CBSA premises located at 333 North River Road, Ottawa, Ontario, K1A 0L8 or an alternative CBSA location in the National Capital Region.

There is no travel requirement under this Task Authorization.

## **Client Support**

The contractor will be provided with a CBSA user ID, password, workstation and email address and other materials (supporting documentation) as required. CBSA will provide each resource with a building access pass, network account when working in CBSA premises.



Contract Number / Numéro du contra	at: 47060-152	116/001/EL			
Contractor Name / Nom du Contracte	eur : IBM				
	Commitment No	o./Nº de F	inancial Coding / Code	Date of Issuance / Da	ate Response required by /
de l'autorisation de tâches (AT) :	l'engagement :	fi	inancier :	d'émission :	Réponse requise par :
2017002530	1000335563		913-300-00	January 24, 2018	January 25, 2018
3. For Amendments Only / Aux	fins de modif	ication seule	ement		
Amendment No. / Nº de la modificati	ion: 2				
Reason for the Amendment / Raison	L	ation :			
Project delays have occurred and on			y the client will be need	ed at a later date than orig	inally anticipated in the initial T
Authorization.				_	
C. TA Requirements / Exigences	relatives à l'	AT.			
Required Resource(s) / Ressource(s) r					
required nesource(s) / nessource(s) /	equise(s)		Estimated Level of		
Category / Catégorie		Level / Nivea	Effort (days) / Niveau	Linguistic Profile / Profile linguistique	Required Level(s) of Security / Niveau(x) de sécurité requis
Application/Software Architect - sp Integration Bus (IIB) - Enterprise Ser		3		English / Anglais	Secret
植 To the Solidate to the Solidate Soli		/Époncó dos s	ravaux (tâches, livrables	rapports, etc.)	
In Table 1997	es, reports, etc.)	/ Ellotte des t			
Statement of Work (tasks, deliverable				task authorization.	
Statement of Work (tasks, deliverable Please see the attached SOW for det	ails pertaining to			task authorization.	
Statement of Work (tasks, deliverable Please see the attached SOW for detection of Services / Période de servi	ails pertaining to	o the work bei	ng completed under this		
Statement of Work (tasks, deliverable Please see the attached SOW for det	ails pertaining to		ng completed under this	e / Date de fin initiale :	Jan 29, 2019
Statement of Work (tasks, deliverable Please see the attached SOW for detection of Services / Période de servi	vice: ale:  Ap	o the work bei	ng completed under this	e / Date de fin initiale :	Jan 29, 2019
Statement of Work (tasks, deliverable Please see the attached SOW for det Period of Services / Période de servicial Start Date / Date de début initi	vice: ale: Ap	o the work bei ril 6, 2017 / Date de fin p	ng completed under this Initial End Date Prolongée (voir Raison po	e / Date de fin initiale :	Jan 29, 2019
Statement of Work (tasks, deliverable Please see the attached SOW for detection of Services / Période de servicial Start Date / Date de début initial Start Date (See Reason for the Option To Extend Initial End Date	vice: ale: Apone Amendment)	o the work bei ril 6, 2017 / Date de fin p	Initial End Date orolongée (voir Raison po	e / Date de fin initiale :	Jan 29, 2019
Statement of Work (tasks, deliverable Please see the attached SOW for detection of Services / Période de servicial Start Date / Date de début initial Start Date (See Reason for the Start	vice: ale: Apone Amendment)	ril 6, 2017  / Date de fin porolonger la da	Initial End Date or olongée (voir Raison poste de fin initiale required.	e / Date de fin initiale :	Jan 29, 2019

Name / Nom	Category / Catégorie	Level / Niveau	Linguistic Profile / Profile linguistique	Level of Security / Niveau de sécurité	PWGSC Security File No. / № dú dossier de sécurité TPSGC	
	Application/Software Architect - specialty in IBM Integration Bus (IIB) - Enterprise Service Bus (ESB)	3	English / Anglais	Secret	93080390	+

Level / Niveau	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Cost / Coût estimatif				
3			\$644,225.00				
	F	Estimated Cost / Coût estimatif	\$644,225.00				
al Estimated Trav	el and Living Cost / Coût tota	al estimatif de voyage et de vie	\$0.00				
applied / % de taxes appliquées 13.000 Applicable Taxes / Taxes applicables							
Total Estimated Cost / Coût total estimatif							
	Niveau 3	Niveau journalier  3  Estimated Travel and Living Cost / Coût totales 13.000  Applie	Level / Niveau   Per Diem Rate / Taux   (days) / Niveau d'effort   estimatif (jours)				

## PART 3 - TA APPROVAL BY CANADA / PARTIE 3 - APPROBATION DE L'AT PAR LE CANADA

By signing this TA, the authorized client authority and/or the PWGSC Contracting Authority certify(les) that the content of this TA is in accordance with the conditions of the Contract.	En apposant sa signature sur l'AT, le client autorisé et/ou l'autorité contractante de TPSGC atteste(nt) que le contenu de cette AT est conforme aux conditions du contrat.
The client's authorization limit is \$200,000,00. When the value of a TA and its arrangement	In the discount of a feet of the second of t

The client's authorization limit is \$300,000.00. When the value of a TA and its amendments (including GST/HST) is in excess of this limit, the TA must be signed by the authorized client and forwarded to the PWGSC Contracting Authority for authorization.

Name of Authorized Client / Nom du client autorisé

Jan 24/18

Date

Name of Contracting Authority / Nom de

Name of Contracting Authority / Nom de l'autorité contractante

l'autorité contractante de TPSGC pour autorisation.

Signature

, Jan 25/18

第45年的国家联盟

## PART 4 - CONTRACTOR SIGNATURE / PARTIE 4 - SIGNATURE DU CONTRACTEUR

Carlos Santos, Authorized Signatory

Name and Title of individual authorized to sign on behalf of the Contractor / Nom et titre de la personne autorisée à signer au nom de l'entrepreneur

Signature

January 30, 2018

Date

(incluant la TPS/TVH) dépasse cette limite, l'AT doit être signée par le client autorisé et transmise à



PART 1 (completed by the Technical/Project Authority): / PART	IE 1 (complete p	ar le Responsable technique / Charg	é du projet)	nones de como de como de como de como de como de como de como de como de como de como de como de como de como d La como de como de como de como de como de como de como de como de como de como de como de como de como de como						
A. General Information / Informations génér	ales									
Contract Number / Numéro du contrat : 47060-152	2116/001/EL									
Contractor Name / Nom du Contracteur : IBM										
	Task Authorization (TA) No. / N° Commitment No. / N° de l'autorisation de tâches (AT): l'engagement: financier: Date of Issuance / Date of Issuan									
2017002530 1000335563			January 24, 2018	January 25, 2018						
B. For Amendments Only / Aux fins de modif	ication seul	ement								
Amendment No. / Nº de la modification : 3										
Reason for the Amendment / Raison pour la modific	ation :	· · · · · · · · · · · · · · · · · · ·	THE RESIDENCE OF THE SECOND STATE OF THE SECON							
Add days. No additional work. Adding funding to	existing TA.	Financial Info 1950-500-	20, C-00053-20, 10100, 200	1						
C. TA Requirements / Exigences relatives à l'A	<u>AT</u>	·								
Required Resource(s) / Ressource(s) requise(s)										
Category / Catégorie	Level / Nivea	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Linguistic Profile / Profile linguistique	Required Level(s) of Security / Niveau(x) de sécurité requis						
Application/Software Architect - specialty in IBM Integration Bus (IIB) - Enterprise Service Bus (ESB)	3		English / Anglais	Secret						
Statement of Work (tasks, deliverables, reports, etc.)	/ Énoncé des	travaux (tâches, livrables	s, rapports, etc.)							
Please see the attached SOW for details pertaining to	the work bei	ng completed under thi	s task authorization.							
Period of Services / Période de service:	**************************************									
Initial Start Date / Date de début initiale :	ril 6, 2017	Initial End Da	te / Date de fin initiale :	Jan 29, 2019						
Extented End Date (See Reason for the Amendment)	/ Date de fin p	prolongée (voir Raison p	our la modification) :							
Option To Extend Initial End Date / Option pour p	orolonger la d	ate de fin initiale								
Travel Requirement(s) / Exigence(s) de voyage :	N/A									
Work Location(s) / Lieu(x) de travail :	333 North	River Road, Ottawa, ON	(National Capital Region)							
PART 2 (completed by the Contractor and/or the Technical/Project Auth	nority) / PART	「IE 2 (complété par le Contracte	eur et/ou le Responsable technique / Cha	igedu projet)						
A. Contractor Resource(s) / Ressource(s) du C										

Note: once approved, only the following resources may provide services under this TA. / Nota: une fois approuvée, seules les ressources suivantes peuvent fournir des services sous la présente AT.

Name and Title of individual authorized to sign on behalf of the Contractor / Nom et titre

de la personne autorisée à signer au nom de l'entrepreneur

# TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

		, –	710.	• • • • • • • • • • • • • • • • • • • •		.0				
Name / Nom	I (ategory / Categorie I		Level / Niveau			Level of Security / Niveau de sécurité		PWGSC Security File No. / № du dossier de sécurité TPSGC		
	specialty in I	Application/Software Architect - specialty in IBM Integration Bus (IIB) - Enterprise Service Bus (ESB)			English / Anglais Secret			93080390	+	
B. Estimated Cost / Coût e	stimatif						<del></del>			
Category / Catégo	prie	Level / Niveau		m Rate / Tournalier	Гаих	(days) / N	Level of Effort iveau d'effort atif (jours)	Total Cos estimatif		
lication/Software Architec Integration Bus (IIB) - Ent Bus (ESB)		3						\$7	735,475.00	
					E	stimated Cost	:/Coût estimatif	\$7	735,475.00	
	Total	Estimated Trav	vel and Livin	g Cost / C	oût tota	l estimatif de	voyage et de vie		\$0.00	
Taxe % applied / % de ta	axes appliquées	13.000			Applic	able Taxes / T	axes applicables	\$	95,611.75	
				Tot	al Estima	ted Cost / Co	ût total estimatif	\$8	331,086.75	
PART 3 - TA APPROVA	AL BY CANA	DA / PART	TE 3 - AP	PROB <i>A</i>	TION	DE L'AT P	AR LE CANA	DA.		-
By signing this TA, the authorized clien certify(ies) that the content of this TA is							le client autorisé et/o AT est conforme au		ntractante de TPSGC u contrat.	
The client's authorization limit is \$1,200 (including GST/HST) is in excess of this forwarded to the PWGSC Contracting A	limit, the TA must be authority for authoriz	signed by the aut	horized client a	nd (inclu	ant la TPS/T	VH) dépasse cett	st \$1,200,000.0 orsc e limite, l'AT doit être our autorisation.	jue la valeur d signée par le	le l'AT et ses modificati client autorisé et trans	ons mise à
Name of Authorized Client / Nom du  Name of Authorized Client / Nom du  Name of Authorized Client / Nom du  Name of Authorized Client / Nom du  Signature	client autorisé D	ate [2]			rité contrac	ting Authority / N tante	om de	Date		
PART 4 - CONTRACTO	R SIGNATU	RE / PART	IE 4 - SIG			CONTRAC	TEUR			

Signature

Date



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## TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

PART 1   pomptered by the Technical Fraject A	wheely, / PART	TE 1 companies	He Responsable technique / s harg	f du projet)				
A. General Information / Infor	mations généi	rales		***************************************				
Contract Number / Numéro du cont	wat: 47060-15	2116/001/EL						
Contractor Name / Nom du Contrac								
Task Authorization (TA) No. / No de l'autorisation de tâches (AT) :	Commitment N Pengagement :		inancial Coding / Code nancier :	Date of Issuance / D d'émission :	ate Response required by / Réponse requise par :			
2017002530	1000335563	1	913-300-00	April 5, 2017	April 6, 2017			
B. For Amendments Only / Au	c fins de modi	fication seule	ement	-				
Amendment No. / Nº de la modifica	tion:			·				
Reason for the Amendment / Raiso	n pour la modifii	cation :	itaataatataan aa aa aa aa aa aa aa aa aa aa aa aa					
		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~						
C. TA Requirements / Exigence	s relatives à l'	AT	`					
Required Resource(s) / Ressource(s)	requise(s)							
Category / Categori	e	Level / Nivea	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Linguistic Profile / Profile linguistique	Required Level(s) of Security / Niveau(x) de sécurité requis			
Application/Software Architect - S Integration Bus (IIB) - Enterprise So				English / Anglais	Secret			
Statement of Work (tasks, deliverat	oles, reports, etc.	) / Énoncé des t	ravaux (tāches, livrable	s, rapports, etc.)				
Please see the attached SOW for de	etalls pertaining t	to the work bei	ng completed under th	is task authorization.				
Period of Services / Période de se	rvice:							
initial Start Date / Date de début ini	tiale: Aç	or 6, 2017	Initial End Da	ste / Date de fin initiale :	October 31, 2017			
Option To Extend Initial End Date	te / Option pour	prolonger la da	ațe de fin înițiale					
Optional End Date(s) /	Date(s) de fin op	tionnelle(s)		Status / Sta	*****			
Octob	er 3 <b>1</b> , 2018	······································		C In effect / en vig	ueur			
Travel Requirement(s) / Exigence(s)	de voyage :	Travel not	required					
Work Location(s) / Lieu(x) de travail	¥.	333 North	River Road, Ottawa, Of	l (National Capital Region)				
PART 2 correlated by the Contractor at the	the Technical Project As	mally: / PAR	ΓΙΕ 2 samelété par le Contrac	new estau le Responsable technique/Cl	sarge dis project			
A. Contractor Resource(s) / Re	ssource(s) du i	Contracteur	cit appromete, senies ŝei estiduece	s subvantes provent favorir des services	sous ša préserčie AT.			

Page 1 of 2

Name / Norn Cates		gory / Catégori	e			Level of Securit de sécurité	Level of Security / Niveau de sécurité			
A CONTRACTOR	Specialty in II	n/Software Arc 3M Integration se Service Bus	Bus (IIB) -	3	Englis	h / Anglais	Secret		93080390	+
s. Estimated Cost / Coût est	timatif									************
Category / Catégoria		Level / Niveau		m Rate / urnalier	aux	(days) / N	Level of Effort liveau d'effort atif (jours)	Total Cos estimatif		
H lication/Software Architect Integration Bus (IIB) – Enter Bus (ESB)		3						\$292,000.00		
		·			£	stimated Cost / Coût estimatif \$292,000.00				
, , , , , , , , , , , , , , , , , , ,	Total	Estimated Trav	el and Livin	g Cost / C	oŭt tota	l estimatif de	voyage et de vie		\$0.00	
Yaxe % applied / % de tax	es appliquées	13.000			Applicable Taxes / Taxes applicables \$37,960.00					
· · ·				Tot	al Estima	ted Cost / Co	üt total estimatif	\$3	129,960.00	
PART 3 - TA APPROVAL	. BY CANA	DA / PART	IE 3 - AP	PROB/	NOIT	DE L'AT P	AR LE CANA	\DA		
y signing this TA, the authorized client as in MyGes) that like content of this TA is in							le client autorisé et/o e AT est conforma au			* 030
he client's authorization limit is \$306,000 refuding GST/MST) is in excess of this lim recorded to the PWGSC Contracting Aut	.00 . When the val it, the TA must be	tue of a YA and its a signed by the auth	mendmenss	La fim id (inclu	ite d'autori int la TPS/1	sation du client e VH) dépasse cell	rst \$300,000,00 . Lorso	ue la vaigus d	is PAT et ses modificatio citent autorisé ex transi	
Robert Penwarden	nkautorise ()	April 57	2017	Name	t. Ident i	ling Authority / F	z Blokki.	Date	indiana tahun ili kalendari in ana	
Kolent Timpere	<u> </u>			Signal Signal	ure					
PART 4 - CONTRACTOR	SIGNATU	RE / PARTI	E 4 - SIG	NATUI	RE DU	CONTRAC	CTEUR			
						inianiani. Linaidanianianianianianianianianianianianiania			5, 2017	
Wayne Liepmann, Authorized Seller  Name and Title of individual authorized to sign on behalf of the Contractor/Nom et titre de la personne autorisée à signer au nom de l'antrepreneur			500	adure /	adaaaadaahahahahahahahahahahahahahahaha		Cate	3, 2017		

Page 2 of 2



Public Works and Government Services Services gouvernementaux Canada Canada

## **TASK AUTHORIZATION FORM** FORMULAIRE D'AUTORISATION DE TÂCHES

	PARALLE.	e i same e i	وليده/ فالمدور المدوولية	ALCOHOL:		9-
A. General Information / Informa	itions généra	iles				
Contract Number / Numéro du contrat	47060-152	116/002/EL				
Contractor Name / Nom du Contracteu	ur : DONNA CO	NA INC.				
Task Authorization (TA) No. / N° Commitment No. / N° de l'autorisation de tâches (AT): l'engagement : financier : d'émission : Résponse required by / Réponse required by /						
	000336054	January 1				
B. For Amendments Only / Aux f	ins de modifi	cation seule	ment			=
		(4),011,100,01			· · · · · · · · · · · · · · · · · · ·	-
Amendment No. / Nº de la modificatio						
Reason for the Amendment / Raison p	our la modifica	ation:				
•						
						一
C. TA Requirements / Exigences		77				
Required Resource(s) / Ressource(s) re	quise(s)			<u> </u>		7
Category / Catégorie		Level / Niveau	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Linguistic Profile / Profile linguistique	Required Level(s) of Security / Niveau(x) de sécurité requis	
Application/Software Architect - Spe Master Data Management (MDM) Serv		3	·	English / Anglals	, SECNET	
Statement of Work (tasks, deliverable	s, reports, etc.)	/ Énoncé des ti	avaux (tâches, livrable:	s, rapports, etc.)		
Background:						
The Canada Border Services Agency ( Border modernization efforts. The Inf- capital projects and the associated in  drive business transformation efforts  advance the planning, development  management of its portfolio of syster  undertaken the Master Data Manage  including the Entry/Exit (E/E), BioMet  foundational components found in N	ormation, Scier formation tech and alignment and implemen ns, projects and ment Service (Prics and UPASS	nce and Techno mology solution of business so tation of the Ag d services. In su MOMS), to put t	plogy Branch (ISTB) sup ns. Traditional IT function lutions in portfolios for gency's transformation apport of the above, the n place an Enterprise B	port these efforts with over ons have been augmented Travelers, Commercial, Cor agenda, ISTB is implement e Common Services Portfoll uilding Blocks that can be I	rsight and alignment of major with program directorates tha mmon and Corporate projects. ing an enterprise approach to io Directorate (CSPD) has leveraged by other initiatives	. To
Objective:						
To acquire professional services for o	ne Application	/Software Arch	itect Level 3 to perform	the tasks and deliverables	below,	
Tasks and Deliverables:						
The Contractor must provide the pro to be followed by a final product inco	fessional servic prporating com	es to perform t ments of the C	he following tasks and SPD project manager (	deliver the following proje or their delegates).	ct deliverables, first in draft for	mat,
Tasks:						A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A CAMPAGE AND A

Page 1 of 4

Provide CBSA with technical expertise and guidance on the following topics:

- Walk through and document IA best practices to profile data within 2 weeks after setup is complete
- Apply IA best practices to CBSA context within 2 weeks of start date
- · Provide configuration for IA core functions. These functions should be specific to CBSA dataset within 2 weeks of start date
- · Provide IA security configuration: users, roles, access within 2 weeks after setup is complete
- · Create proper IA classes and rules using IA desktop client within 3 weeks after setup is complete
- · Provide guidelines, standards and best practices for the use of an IA web client to create additional rules within 2 weeks after setup is complete
- · Review and comment on the CBSA IIS server installation topology within 3 weeks of start date;
- Provide guidelines, standards and best practices for the installation and configuration of information server products for CBSA including WebSphere Information Services Director of Information Server;
- Review and comment on DataStage and QualityStage project version control practices;
- · Provide guidelines, standards and best practices for the installation and configuration of InfoSphere and its integration of IIS components;
- · Review and comment on the IIS security frameworks and integration with CBSA security policy and identity stores;
- Review and comment on performance tuning, load balancing and optimization strategies for IBM InfoSphere in the context of the MDM Server environment.
- Review and comment on the MDM infrastructure design supporting the IT Engineering task due on September 30th 2017;
- Review and comment on the MDM Server components hardware sizing;
- Develop industry best practices in performance tuning, load balancing and optimization; strategies for IBM infoSphere MDM Server environment;
- · Provide weekly scheduled knowledge transfer sessions to CBSA application support team;
- · Develop best practices for IBM MDM implementation;
- Review and comment on MDM and other CBSA Data sources data mapping;
- Review and comment on MDM data mapping and MDM business functional requirement;
- · Review and comment on CBSA non-functional requirements;
- Provide adhoc assistance and guidance to the MDM development team;
- · Prepare test cases and provide input to test plans to validate final designs in collaboration with the CBSA test coordinator(s):
- · Provide guidance to the project manager for HR planning;
- · Configure MDM security frameworks and integration with CBSA security policy and identity stores;
- Review and comment on MDM performance tuning; and
- Provide guidelines, standards and best practices for the integration with ESB-IIB, IIS and ISIL

### Deliverables:

The Contractor shall provide the following:

- Contractor will deliver the summary document reflecting the IA best practices in CBSA context, installation topology and security setup recommendation within 4 weeks of start date;
- Produce Data Stewardship UI Specs by end of April, 2017;
- · Produce MDM-UPASS BR by end of April, 2017;
- Design MDM environment integrated with IIS server in CBSA data center by end of May, 2017;
- Finish Integrated Prototype by end of May, 2017;
- · Provide installation scripts to install MDM Server on different environments by end of May, 2017;
- · Produce step by step installation documentation with screenshots by end of June, 2017;
- Produce and/or update MDM, and DPLS ICDs by end of June, 2017;
- Produce MDM-UPASS SR, PDR by end of August, 2017;
- · Provide documentation outlining Availability, fail-over and recoverability strategies by end of September, 2017;
- Provide GEC data analysis completed by end of October, 2017;
- Review and update MDM components detailed design document. Architecture Design Specification (ADS) parts 3 & 4 documents for CDR by end of October, 2017;
- · Update CDR documentation by end of October, 2017; and
- · Update Data Stewardship UI Specs by end of November, 2017.

All deliverables must be provided in conformance with CBSA's standard desktop operating software which is Microsoft Office Suite (including Word, Excel, Visio, and PowerPoint) and Archimate in English.

All deliverables must be provided in a manner that permits integration with CBSA's technical and operational environment as specified by the Project Authority. All deliverables must be in the format of or compatible with the (SLMF) Service Life Cycle Management Framework.

All deliverables must be provided to the Project Authority for their review and acceptance. Should there be problems or issues with the deliverables being presented, the Project Authority will notify the resource of the items that must be modified within five(5) business days of receipt of the deliverable.

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## TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

Technical Environment:						
As defined in Section 12 of the c	ontract number	47060-152116/002/EL.				
Constraints:						
At no time and in no way is CBS/ or ling (e.g. VPN) be permitted. I the contract.	A data to be remo	oved from CBSA sites, no ust comply with CBSA Ir	or will acce nternal sec	ess to or from the Con- curity policies, directiv	tractor's IT systems through es, standards, and guideling	n the use of a session es at all times during
The CBSA's working hours are bo These are core hours and are no	etween 07:00 to t representative	18:00 Monday through F of the duration of a Con	riday, exc tractor's w	ept for Statutory Hollo ork day.	days where Government Of	fices are closed.
Reporting Requirements:						
The resource must provide a we reporting period, what work is s The status reports must also be	tiil outstanding, a	and any issues or concer	rns that th	e resource wants to lo	lentity to the attention of th	rtaken during the ne Project Authority.
Client Support:						
The contractor will be provided required. CBSA will provide each	with a CBSA user h resource with a	ID, password, workstat building access pass, no	ion and e- etwork acc	mall address and othe count when working i	er materials (supporting do n CBSA premises.	cumentation) as
Period of Services / Période de	service:					
Initial Start Date / Date de début	t initiale :	Apr 27, 2017	Initia	l End Date / Date de fi	ninitiale: Jan	31, 2018
Extented End Date (See Reason	for the Amendm	ent) / Date de fin proion	gėe (voir l	Ralson pour la modific	ation):	
Option To Extend Initial End	Date / Option po	our prolonger la date de	fin Initial	:		
Travel Requirement(s) / Exigenc	e(s) de voyage :	No				
Work Location(s) / Lieu(x) de tra	vall:	333 North River Capital Region.		tawa, Ontario, K1 A OLE	3 or an alternative CBSA loc	ation in the National
	eddor pre Technolytica	essa / PARTIES	Laurence p	le Contrador (Voi le Nation	inderections/Crarge (A) projett	
A. Contractor Resource(s) / Note: once approved, only the following resour			ouvée, seules l	es ressources ruivantes peuvent	fournit des services sous la présente A1.	
Name / Nom	Catego	ory / Catégorie	Level / Niveau	Linguistic Profile / Profile linguistique	Level of Security / Niveau de sécurité	PWGSC Security File No. / Nº du dossier de sécurité TPSGC
	Specialty i	Software Architect - n IBM Master Data ent (MDM) Server	3	English / Anglais	, SECRET	95841252
B. Estimated Cost / Coût es	timatif					

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Category / Categorle	Level / Niveau	Per Diem Rate / Taux journaller	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Cost / Cout estimatif
+  lication/Software Architect - Specialty in   IBM Master Data   Management (MDM) Server	3	,		\$337,500.00
		E	stimated Cost / Coût estimatif	\$337,500.00
Total E	stimated Trav	el and Living Cost / Coût tota	l estimatif de voyage et de vie	\$0.00
Taxe % applied / % de taxes appliquées	13.000	\$43,875.00		
		Total Estima	ated Cost / Coût total estimatif	\$381,375.00

		Tost Colar Colling in de voyage et de vie	30.00
Taxe % applied / % de taxes appliquées	13.000	Applicable Taxes / Taxes applicables	\$43,875.00
		Total Estimated Cost / Coût total estimatif	\$381,375.00
NAMES AND PARTY OF THE PARTY.	AVOMOTE FAR	HOBATION DE VAT PAR LE CANAC	A
By signing this TA, the authorized cfient authority and/or the cortifyies; that the content of this TA is in accordance with th	PWGSC Contracting Authority is conditions of the Contract.	En apposant sa signature sur l'AT, le client autorisé et/ou l'a atteste(nt) que le contenu de cette AT est conforme aux co	autorité contractante de TPSGC inditions du contrat
The client's authorization limit is \$300,000.00 . When the vak including GST/HST) is in excess of this limit, the TA must be s orwarded to the PWGSC Contracting Authority for authoriza	igned by the authorized client and	La ilmite d'autorisation du client est \$300,000,00 . Lorsque i (incluant la TPS/TVH) dépasse cette limite, l'AT doit être sig l'autorité contractante de TPSGC pour autorisation.	la valeur de l'AT et ses modifications née par le client autorisé et transmise i
Matthew Wouls A Name of Authorized Client / Nom du client autoribe Od	pn/28, 2017	Name of Contracting Authority / Norn de Contracting Authority / Norn de Cautorité contractante	April 77, 2017
M ~~ Signature		Age ( Lodd)	
DASTE FINESA CT		Allegation from Spirit Berlin.	780 <b>3</b> 727 <b>3</b> 7
A STATE OF THE PARTY OF THE PAR		MATURE DU CONTRACTEUR	80 4

PARTIES CONTRACTO CONTRACTEU	N. Sign

Name and Title of individual authorized to sign on behalf of the Contractor / Nom et litre de la personne autorisée à signer au nom de l'entrepreneur

A. General Information / Informations géné	rales				
Contract Number / Numéro du contrat : 47060-15	2116/002/EL				
Contractor Name / Nom du Contracteur : DONNA (	ONA INC.				
Task Authorization (TA) No. / N° Commitment I de l'autorisation de tâches (AT) : l'engagement		Financial Coding / Code	Date of Issuance / D	Pate Response requi	
2018000107 1000336054		192040060/6001/16100		Dec 27, 2017	
B. For Amendments Only / Aux fins de modi	fication seul	ement			
Amendment No. / № de la modification : 1					
Reason for the Amendment / Raison pour la modifi	cation:				
The MDM project delivery timelines have changed		rements have been pres	ented which requires addit	tional MDM architectur	e work to b
completed.					· ** *** ***
C. TA Requirements / Exigences relatives à l					
	AL				
Required Resource(s) / Ressource(s) requise(s)	~ <del>*</del>		<b>*</b>	***************************************	
Category / Catégorie	Level / Nivea	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Linguistic Profile / Profile linguistique	Required Level(s) of So Niveau(x) de sécurité i	
Application/Software Architect - Specialty in IBM Master Data Management (MDM) Server	3		English / Anglais	Secret	
Statement of Work (tasks, deliverables, reports, etc.	/ Énoncé des l	travaux (táches, livrable:	s, rapports, etc.)		
Background					***************************************
The Canada Border Services Agency (CBSA) is under Border modernization efforts. The Information, Scie capital projects and the associated information technique business transformation efforts and alignmen	nce and Techn mology solutio	ology Branch (ISTB) sup ins. Traditional IT functio	port these efforts with over ons have been augmented	rsight and alignment of with program directors	f major ates that
To advance the planning, development and implen the management of its portfolio of systems, project		e Agency's transformation	on agenda, ISTB is impleme	enting an enterprise app	proach to
In support of the above, the Common Services Port place an Enterprise Building Blocks that can be leve of the Entry/Exit project is dependent on successful	raged by other	initiatives including the	Entry/Exit (E/E), BioMetrics		
Objective					
To acquire professional services for one Application	/Software Arch	itect Level 3 to perform	the tasks and deliverables	below.	
Fasks and Deliverables					
The Contractor must provide the professional servic to be followed by a final product incorporating com				ct deliverables, first in d	raft format



#### Tasks

Provide CBSA with technical expertise and guidance on the following topics:

- Walk through and document IA best practices to profile data within 2 weeks after setup is complete
- Apply IA best practices to CBSA context within 2 weeks of start date
- Provide configuration for IA core functions. These functions should be specific to CBSA dataset within 2 weeks of start date
- · Provide IA security configuration: users, roles, access within 2 weeks after setup is complete
- · Create proper IA classes and rules using IA desktop client within 3 weeks after setup is complete
- Provide guidelines, standards and best practices for the use of an IA web client to create additional rules within 2 weeks after setup is complete
- Review and comment on the CBSA IIS server installation topology within 3 weeks of start date;
- Provide guidelines, standards and best practices for the installation and configuration of information server products for CBSA including WebSphere Information Services Director of Information Server;
- Review and comment on DataStage and QualityStage project version control practices;
- Provide guidelines, standards and best practices for the installation and configuration of InfoSphere and its integration of IIS components;
- · Review and comment on the IIS security frameworks and integration with CBSA security policy and identity stores;
- Review and comment on performance tuning, load balancing and optimization strategies for IBM InfoSphere in the context of the MDM Server
  environment.
- Review and comment on the MDM infrastructure design supporting the IT Engineering
- Review and comment on the MDM Server components hardware sizing;
- Develop industry best practices in performance tuning, load balancing and optimization; strategies for IBM InfoSphere MDM Server environment;
- Provide weekly scheduled knowledge transfer sessions to CBSA application support team;
- Develop best practices for IBM MDM implementation;
- · Review and comment on MDM and other CBSA Data sources data mapping;
- Review and comment on MDM data mapping and MDM business functional requirement;
- Review and comment on CBSA non-functional requirements;
- Provide adhoc assistance and guidance to the MDM development team;
- Prepare test cases and provide input to test plans to validate final designs in collaboration with the CBSA test coordinator(s);
- Provide guidance to the project manager for HR planning;
- Configure MDM security frameworks and integration with CBSA security policy and identity stores;
- Review and comment on MDM performance tuning; and
- Provide guidelines, standards and best practices for the integration with ESB-IIB, IIS and ISII.
- Provide the MDM solution architecture;
- Provide the MDM ever greening Architecture Solution;

#### Deliverables

The Contractor shall provide the following:

- Contractor will deliver the summary document reflecting the IA best practices in CBSA context, installation topology and security setup
  recommendation within 4 weeks of start date;
- Produce an updated Data Stewardship UI Specs by end of February, 2018;
- Provide installation scripts to install MDM Server on different environments by end of May, 2018;
- Produce and/or update MDM, and DPLS ICDs by end of February, 2018;
- · Provide updated documentation outlining Availability, fail-over and recoverability strategies by end of May, 2018;
- Review and update MDM components detailed design document. Architecture Design Specification (ADS) parts 3 & 4 documents for CDR by February
   15, 2018;
- Update CDR documentation by February 15, 2018; and
- Provide ever greening and initial load architecture and design documents by end of May 2018.

All deliverables must be provided in conformance with CBSA's standard desktop operating software which is Microsoft Office Suite (including Word, Excel, Visio and PowerPoint) and Archimate in English.

All deliverables must be provided in a manner that permits integration with CBSA's technical and operational environment as specified by the Project Authority. All deliverables must be in the format of or compatible with the (SLMF) Service Life Cycle Management Framework.

All deliverables must be provided to the Project Authority for their review and acceptance. Should there be problems or issues with the deliverables being presented, the Project Authority will notify the resource of the items that must be modified within five(5) business days of receipt of the deliverable.

### Technical Environment

As defined in Section 12 of the contract number 47060-152116/002/EL.



	cess to or from the Co			11
	ecurity policies, directi	ves, standards, and guideli	nes at all times duri	
		iidays where Government (	Offices are closed.	
			h. The individual	
still outstanding, and	any issues or concerns	that the resource wants to	identify to the	
				***************************************
		ario, K1A OL8 or an alternati	ive CBSA location in	-
				***************************************
			ocumentation) as	
17 Initi	al End Date / Date de f	in initiale : Jan	31, 2018	
er la date de fin initia	k			
e(s)		Status / Statut		
	⑥ In effect / en vigueur			
3 North River Road, Or oital Region.	ttawa, Ontario K1A0L8	or an alternative CBSA loca	ition in the Nationa	
PARTIE 2 (complété p	iar le Contracteur et/ou le Respon	sable technique / Chargé du projeti		
C <b>teur</b> Ota : une fois approuvée, seules	les ressources suivantes peuvens	ournir des services sous la présente AT.		
rie Level / Niveau	Linguistic Profile / Profile linguistique	Level of Security / Niveau de sécurité	PWGSC Security File No. / № du dossier de sécurité TPSGC	***************************************
	rick in English. Every income in English without in English with in English with in Engli	rk in English. Every individual proposed in its in English without any assistance and with the early status report in MS Word electronically still outstanding, and any issues or concerns also be supported by a monthly detailed time cated at 333 North River Road, Ottawa, Ontaunder this Task Authorization.  Ord, workstation and e-mail address and oth common cated at a date defin initial address and other cess pass, network account when working in the ladded of the english of the engl	this in English. 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										+
B. Estimated Cost / Coût estimat	<u>if</u>			***************************************		*		_		
Category / Catégorie		Level / Niveau		m Rate / ournalier	Taux	(days) / N	Level of Effort iveau d'effort atif (jours)	Total Cos estimatif		
lication/Software Architect - Spec Master Data Management (MDM)		3		••••••				\$:	337,500.00	
Application/Software Architect - Spec IBM Master Data Management (MDM)		3						52	225,000.00	
					E	stimated Cos	t / Coût estimatif	\$5	562,500.00	
	Total E	stimated Trav	el and Livin	g Cost / (	Coût tota	l estimatif de	voyage et de vie		\$0.00	
Taxe % applied / % de taxes app	oliquées	13.000			Applic	able Taxes / 1	axes applicables	\$	73,125.00	
	***************************************			To	tal Estima	ited Cost / Co	ût total estimati!	Ş	535,625.00	
PART 3 - TA APPROVAL BY	CANAI	DA / PART	IE 3 - AP	PROB	ATION	DE L'AT P	AR LE CANA	ADA		
By signing this <b>TA, the a</b> uthorized client authority certify(ies) that <b>the cont</b> ent of this TA is in accord.							le client autorisé et/o e AT est conforme au		ntractante de TPSGC u contrat.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
The client's authorization limit is \$300,000.00 . W (including GST/HST) is in excess of this limit, the T forwarded to the PWGSC Contracting Authority for	hen the vali 'A must be s	ue of a TA and its a igned by the auth	mendments	La lin	nite d'autori iant la TPS/	isation du client e [Vrl] dépasse cet	st \$300,000.00 . Lorse	que la valeur d	le l'AT et ses modificati client autorisé et trans	
Name of Authorized Client / Nom du client auto	STISE OF	<u> </u>			e of Contrac orité contrac	ting Authority / f	Nom de	Date		
Signature Floridander	***************************************			Signi	!(u/e					
PART 4 - CONTRACTOR SIG	NATUI	RE / PARTI	E 4 - SIG	NATU	RE DU	CONTRA	CTEUR			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
42.44.4	had aire aire an an abiliti	FAECUTIVE	000000000000000000000000000000000000000	1	M			De	21,2017	
Name and Title of individual authorized to sign de la personne autorisée à signer au nom de l'e			wom et titre		nature			vove		

Public Works and Travaux publics et Services gouvernementaux Canada

PART 1 (completed by the Technical/Project	Authority) / PART	IE 1 (complèté par	le Responsable technique / Charg	duproct			
A. General Information / Infor	mations génér	ales					
Contract Number / Numéro du con	trat : 47060-152	2116/002/EL					
Contractor Name / Nom du Contrac	cteur : DONNA C	ONA INC.					
Task Authorization (TA) No. / No de l'autorisation de tâches (AT) :	Commitment N l'engagement :		de Financial Coding / Code financier : Date of Issuance / Date d'émission :		ate Response red Réponse red		
2018000107	1000336054		92040060/6001/16100	Jun 28, 2018	Jun 28, 2018		
B. For Amendments Only / Aux fins de modification seulement							
Amendment No. / Nº de la modifica	ation : 2		oostaanaanaanaanaanaanaanaanaanaanaanaanaan				
Reason for the Amendment / Raiso	on pour la modific	ation:					
The MDM project delivery timeline completed.	s have changed a	and new require	rments have been pres	ented which requires addit	ional MDM architectu	are work to be	
C. TA Requirements / Exigence	es relatives à l'	AT					
Required Resource(s) / Ressource(s)	) requise(s)						
Category / Catégori	Level / Niveau	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Linguistic Profile / Profile linguistique	Required Level(s) of Níveau(x) de sécurit	* {		
Application/Software Architect - S Master Data Management (M		3		English / Anglais	Secret	*	
Statement of Work (tasks, deliverab	oles, reports, etc.)	/ Enoncé des tr	avaux (tâches, livrables	s, rapports, etc.)			
Background							
The Canada Border Services Agenc Border modernization efforts. The I capital projects and the associated drive business transformation effor	Information, Scier information tech	nce and Techno inology solution	ology Branch (ISTB) sup ns. Traditional IT functio	port these efforts with over ons have been augmented	rsight and alignment with program director	of major orates that	
To advance the planning, developr the management of its portfolio of			Agency's transformation	on agenda, ISTB is impleme	enting an enterprise a	pproach to	
In support of the above, the Comm place an Enterprise Building Blocks of the Entry/Exit project is depende	that can be lever	raged by other i	nitiatives including the	Entry/Exit (E/E), BioMetrics			
Objective							
To acquire professional services for	one Application/	/Software Archi	tect Level 3 to perform	the tasks and deliverables	below.		
Tasks and Deliverables							
The Contractor must provide the pi to be followed by a final product in					ct deliverables, first in	draft format.	

Travaux publics et Services gouvernementaux Canada

# TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

#### Tasks

Provide CBSA with technical expertise and guidance on the following topics:

- · Walk through and document IA best practices to profile data within 2 weeks after setup is complete
- Apply IA best practices to CBSA context within 2 weeks of start date
- Provide configuration for IA core functions. These functions should be specific to CBSA dataset within 2 weeks of start date
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- Create proper IA classes and rules using IA desktop client within 3 weeks after setup is complete
- Provide guidelines, standards and best practices for the use of an IA web client to create additional rules within 2 weeks after setup is complete
- Review and comment on the CBSA IIS server installation topology within 3 weeks of start date;
- Provide guidelines, standards and best practices for the installation and configuration of information server products for CBSA including WebSphere Information Services Director of Information Server:
- · Review and comment on DataStage and QualityStage project version control practices;
- · Provide guidelines, standards and best practices for the installation and configuration of InfoSphere and its integration of IIS components:
- Review and comment on the IIS security frameworks and integration with CBSA security policy and identity stores;
- Review and comment on performance tuning, load balancing and optimization strategies for IBM InfoSphere in the context of the MDM Server
  environment.
- Review and comment on the MDM infrastructure design supporting the IT Engineering
- Review and comment on the MDM Server components hardware sizing;
- Develop industry best practices in performance tuning, load balancing and optimization; strategies for IBM InfoSphere MDM Server environment;
- Provide weekly scheduled knowledge transfer sessions to CBSA application support team;
- Develop best practices for IBM MDM implementation;
- Review and comment on MDM and other CBSA Data sources data mapping;
- Review and comment on MDM data mapping and MDM business functional requirement;
- Review and comment on CBSA non-functional requirements;
- Provide adhoc assistance and guidance to the MDM development team;
- Prepare test cases and provide input to test plans to validate final designs in collaboration with the CBSA test coordinator(s);
- Provide guidance to the project manager for HR planning;
- Configure MDM security frameworks and integration with CBSA security policy and identity stores;
- Review and comment on MDM performance tuning; and
- Provide guidelines, standards and best practices for the integration with ESB-IIB, IIS and ISII.
- Provide the MDM solution architecture;
- Provide the MDM ever greening Architecture Solution;

### Deliverables

The Contractor shall provide the following:

- Contractor will deliver the summary document reflecting the IA best practices in CBSA context, installation topology and security setup recommendation within 4 weeks of start date;
- Produce an updated Data Stewardship UI Specs by end of February, 2018;
- Provide installation scripts to install MDM Server on different environments by end of May, 2018;
- Produce and/or update MDM, and DPLS ICDs by end of February, 2018;
- Provide updated documentation outlining Availability, fail-over and recoverability strategies by end of May, 2018;
- Review and update MDM components detailed design document. Architecture Design Specification (ADS) parts 3 & 4 documents for CDR by February 15, 2018;
- Update CDR documentation by February 15, 2018; and
- Provide ever greening and initial load architecture and design documents by end of May 2018.

All deliverables must be provided in conformance with CBSA's standard desktop operating software which is Microsoft Office Suite (including Word, Excel, Visio and PowerPoint) and Archimate in English.

All deliverables must be provided in a manner that permits integration with CBSA's technical and operational environment as specified by the Project Authority. All deliverables must be in the format of or compatible with the (SLMF) Service Life Cycle Management Framework.

All deliverables must be provided to the Project Authority for their review and acceptance. Should there be problems or issues with the deliverables being presented, the Project Authority will notify the resource of the items that must be modified within five(5) business days of receipt of the deliverable.

Technical Environment

As defined in Section 12 of the contract number 47060-152116/002/EL.



Constraints						
At no time and in no way is CBSA data to be re- or ling (e.g. VPN) be permitted. The contractor the contract.	moved from CBSA sites, must comply with CBSA	nor will access to or from the Contractor's IT sys A internal security policies, directives, standards,	tems through the use of a session and guidelines at all times during			
	o 18:00 Monday throug re of the duration of a Co	h Friday, except for Statutory Holidays where Go ontractor's work day.	vernment Offices are closed.			
Language						
The proposed Resource will be required to per proposed must be able to communicate orally	form the work in English and in writing in English	n. Every individual proposed in its bid will be flue h without any assistance and with minimal errors	nt in English. The individual s.			
Reporting Requirements						
was undertaken during the reporting period, w	hat work is still outstan	report in MS Word electronically to the Project Ading, and any issues or concerns that the resource ported by a monthly detailed time sheet mapped	e wants to identify to the			
Location of Work						
The work is expected to be performed on CBSA the National Capital Region. There is no travel r		3 North River Road, Ottawa, Ontario, K1A 0L8 or Task Authorization.	an alternative CBSA location in			
Client Support			***************************************			
The contractor will be provided with a CBSA us required. CBSA will provide each resource with	er ID, password, worksta a building access pass,	ation and e-mail address and other materials (sup network account when working in CBSA premise	oporting documentation) as			
Period of Services / Période de service:						
nitial Start Date / Date de début initiale :	Apr 27, 2017	Initial End Date / Date de fin initiale :	Jan 31, 2018			
Extented End Date (See Reason for the Amenda	nent) / Date de fin prolo	ongée (voir Raison pour la modification) :	Nov 30, 2018			
Option To Extend Initial End Date / Option p	oour prolonger la date d	le fin initiale	**************************************			
ravel Requirement(s) / Exigence(s) de voyage :	No	No				
Vork Location(s) / Lieu(x) de travail :	333 North Rive Capital Region	er Road, Ottawa, Ontario K1A0L8 or an alternativo	e CBSA location in the National			

## PART 2 (completed by the Contractor and/or the Technical/Project Authority) / PARTIE 2 (complete par le Contractour et/ou le Responsable technique / Chargé dia projet)

	/ Ressource(s) du Contracteur urces may provide services under this TA. / Nota : une fois appn	puvėe, seules i	es ressources suivantes peuvent :	fournir des services sous la présente AT.		
Name / Nom	Category / Catégorie	Level / Niveau	w/	1	PWGSC Security File No. / Nº du dossier de sécurité TPSGC	
	Application/Software Architect - Specialty in IBM Master Data Management (MDM) Server	3	English / Anglais	Secret	95841252	+

## B. Estimated Cost / Coût estimatif



Travaux publics et

## **TASK AUTHORIZATION FORM** FORMULAIRE D'AUTORISATION DE TÂCHES

Category / Catégorie	Level / Niveau	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Cost / Coût estimatif
lication/Software Architect - Specialty in Master Data Management (MDM) Server	3			\$630,000.00
		£	stimated Cost / Coût estimatif	\$630,000.00
Total I	stimated Trav	el and Living Cost / Coût tota	l estimatif de voyage et de vie	\$0.00
Taxe % applied / % de taxes appliquées	13.000 Applicable Taxes / Taxes applicables			\$81,900.00
	\$711,900.00			

## PART 3 - TA APPROVAL BY CANADA / PARTIE 3 - APPROBATION DE L'AT PAR LE CANADA

En apposant sa signature sur l'AT, le client autorisé et/ou l'autorité contractante de TPSGC atteste(nt) que le contenu de cette AT est conforme aux conditions du contrat.
La limite d'autorisation du client est \$300,000.00 . Lorsque la valeur de l'AT et ses modifications (incluant la TPS/TVH) dépasse cette limite, l'AT doit être signée par le client autorisé et transmise à l'autorité contractante de TPSGC pour autorisation.
Villeneuve, Julie 3 Digitally signed by Villeneuve, Julie 3 Date: 2018.06.27.08:38:31-04'00'  Name of Contracting Authority / Nom de
l'autorité contractante
Signature

## PART 4 - CONTRACTOR SIGNATURE / PARTIE 4 - SIGNATURE DU CONTRACTEUR

Mark Coldham Account Executive	Marine .	6/27/2018
Name and Title of individual authorized to sign on behalf of the Contractor / Nom et titre	Signature	Date
de la personne autorisée à signer au nom de l'entrepreneur		



Public Works and Government Services Canada Trayaux publics et Services gouvernementaux Canada

## TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

PART 1 (complished by the Technical Project Authority) / PARTIE 1 (complished parts Responsible (schnique / Chargé du projet)

A. General Information / Informations of	énérales	·						
Contract Number / Numéro du contrat :	47060-152116/002/E	L						
Contractor Name / Nom du Gontracteur :	DONNA CONA INC	<b>).</b>	•					
Task Authorization (TA) No. Nº de l'autorisation de tâches (AT)∷	Commitment No. N° de l'engagement :	Financial Cod Code financia	-	Date of Issuance Date d'émission :	Response required by Réponse requise d'icl le ;			
2018000107	1000336054	1920400060/600	01/10400	Jan 20, 2020	29-Jan-2020			
B. For Amendments Only / Aux fins de	modification seulem	<u>ient</u>						
Amendment No: / Nº de la modification :	5							
Reason for the Amendment / Raison pour là m	odification:							
Amendment #5 is raised for the following: 1) Extend end date from February 23, 20, 2) Add data do 3)Increase total cost from \$1,254,125.00	20 to February 23, 202 Tys total estimated lev	el of effort;	ra).					
C: TA Requirements / Exigences relatives à l'AT								
Required Resource(s) / Ressource(s) requise(s)								
Category and Level Categorie et Niveau		Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)		: Profile / Profile guistique	Required Level(s) of Security I Niveau(x) de sécurité requis			
Programmer/Software Developer - S MastermData Management (MDM) - C Level 3		English / Anglais						
Statement of Work (tasks, deliverables, report	s, etc.) / Énoncé des trav	vaux (tāches, livrables,	rapports, et	c.)				
See attached / Voir pièce jointe			······································					
Period of Services / Période de service:								
Initial Start Date / Date de début initiale :	Nov 1,2018	Initia	il End Date:	/ Date de fin initiale :	23-Feb-2021			
Extented End Date (See Reason for the Amen	dment) / Date de fin prol	ongée (voir Raison po	ur la modific	ation):				
Option To Extend Initial End Date / Option	pour prolonger la date	de fin initiale.						
Optional End Date(s) / Date(s) de fin	optionnelle(s)		Sta	atus / Statut				
х			O Inje	ffect / en vigueur				
Travel Requirement(s) / Exigence(s) de voyag	n/a							

Work Location(s) / Lieu(x) de travail :

333 North River Road, Ottawa, Ontario, K1A 0L8 or an alternative CBSA location in the National Capital Region

## PART 2 (completed by the Contractor and/or the Technical/Project Authority) / PARTIE 2 (complete par le Contracteur et/ou le Responsable technique / Chargé du projet)

Contractor Resource(s) and Estimated Note: once approved, only the following resources may provide services us	Cost / Ressource(s)	du Contracteur e	et Coût tota es peuvent fournir des	l estimatif s services sous la présente AT	
Name / Nom Category and Level / Catégorie et Niveau	PWGSC Security File No. / N° du dossier de sécurité TPSGC	Linguistic Profile / Profil linguistique	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Estimated Cost / Coût total estimatif
Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java development		English/Anglais			\$1,728,125.00
Estimated Cost / Coût estimatif					
Total Estimated Travel and Living Cost / Coût total estimatif de voyage et de vie					
Taxes % applied # % taxes appliquées	axes % applied # % taxes appliquées 13 Applicable Taxes / Taxes applicables				\$224,656.25
		Total Estir	mated Cost /	Coût total estimatif	\$1,952,781.25
Check applicable Basis of Pa Cocher la Base de Palement a		Maximum Price / Prix Maximum :		Firm Price / Prix Ferme :	

## PART 3 - TA APPROVAL BY CANADA / PARTIE 3 - APPROBATION DE L'AT PAR LE CANADA

By signing this TA, the authorized client authority and/or the PWGSC Contracting Authority certify(ies) that the content of this TA is in accordance with the conditions of the Contract.  The client's authorization limit is \$150,000. When the value of a TA and its amendments (excluding Applicable Taxes) is in excess of this limit, the TA must be signed by the authorized client and forwarded to the PWGSC Contracting Authority for authorization.	En apposant sa signature sur l'AT, le client autorisé et/ou t'autorité contractante de TPSGC atteste(nt) que le contenu de cette AT est conforme aux conditions du contrat.  La limite d'autorisation du client est 150,000 \$. Lorsque la valeur de l'AT et ses modifications (excluant les taxes applicables) dépasse cette limite, l'AT doit être signée par le client autorisé et transmise à l'autorité contractante de TPSGC pour autorisation
Name of Technical Authority / Nom de l'autorité techni Date  Signature	Name of Contracting Authority / Nom de l'autorité contractante Date  CASTONGUA  Digitally signed by CASTONGUAY KARIEANNE DN: Carea, Orga, Ollrectra adre, OUI-PERSONNEL, SERIALAUMBÉRE-201698112701000 + ON-CASTONGUAY KARIEANNE ON-CASTONGUAY KARIEANNE Die: 2020-01-23 032-01:22 Foxit PhantomPDF Version: 9.4.1

## PART 4 - CONTRACTOR SIGNATURE / PARTIE 4 - SIGNATURE DU CONTRACTEUR

MARIC (OLDHAM) AROUNT DECUTE	Will	Ja 22, 2010
Name and Title of individual authorized to sign on behalf of the Contractor /	Signature	Date
Nom et titre Signature de la personne autorisée à signer au nom de l'entrepre	eneur	



Travaux publics et Services gouvernementaux Canada

# TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

PART 1 (compléted by the Technical/Project Authority) / PARTIE 1 (complété par le Responsable technique / Chargé du projet)

A. General Information / Informations	<u>jénérales</u>				
Contract Number / Numéro du contrat :	47060-152116/002/E	L			
Contractor Name / Nom du Contracteur :	DONNA CONA INC	<b>3</b> .			
Task Authorization (TA) No. № de l'autorisation de tâches (AT) :	Commitment No. Nº de l'engagement :	Financial Co Code financ	•	Date of Issuance Date d'émission :	Response required by Réponse requise d'ici le :
2018000107	1000336054	1920400060/60	)01/10400	May 8th, 2020	May 11th, 2020
B. For Amendments Only / Aux fins de	modification seulem	<u>nent</u>			
Amendment No. / Nº de la modification :	6				
Reason for the Amendment / Raison pour la m	odification :				
Amendment #6 is raised for the following 1) Exchange resource to continue with ar				_	
C. TA Requirements / Exigences relative	∕es à l'AT				
Required Resource(s) / Ressource(s) requise(	s)				
Category and Level Catégorie et Niveau		Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	-	c Profile / Profile nguistique	Required Level(s) of Security / Niveau(x) de sécurité requis
Programmer/Software Developer - S MastermData Management (MDM) - S Level 3			Englis	sh / Anglais	Secret
Statement of Work (tasks, deliverables, reports	s. etc.) / Énoncé des trav	vaux (tâches, livrables	s. rapports. eí	tc.)	
See attached / Voir pièce jointe	,		, . [ ]		
Period of Services / Période de service:					
Initial Start Date / Date de début initiale :	Nov. 1st, 2018	Init	ial End Date	/ Date de fin initiale :	Feb. 23rd, 2021
Extented End Date (See Reason for the Amen	dment) / Date de fin prol	ongée (voir Raison p	our la modific	ation):	
☐ Option To Extend Initial End Date / Option	n pour prolonger la date (	de fin initiale			
Optional End Date(s) / Date(s) de fin	optionnelle(s)		Sta	atus / Statut	
Х			O In E	ffect / en vigueur	
Travel Requirement(s) / Exigence(s) de voyage					
Work Location(s) / Lieu(x) de travail :	333 North Rive	er Road, Ottawa, Ont in the Nat	ario, K1A 0L8 ional Capital l		3SA location

ASFC - Divulgation en vertu de la loi sur l'A	eccès :	i l'infor

PART $2a$	completed by the Contractor and/or the Technical/Project Authority)	PARTIF 2 (complété n	ar le Contracteur et/ou le Responsable technique / Chargé du proiet)	

Contractor Resource(s) and Estimated Note: once approved, only the following resources may provide services or					
Name / Nom Category and Level / Catégorie et Niveau	PWGSC Security File No. / Nº du dossier de sécurité TPSGC	Linguistic Profile / Profil linguistique	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Estimated Cost / Coût total estimatif
Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java development		English/Anglais			
			Estimated	Cost / Coût estimatif	
1	Total Estimated Travel an	d Living Cost / Coût	total estimatif	de voyage et de vie	\$0.00
Taxes % applied # % taxes appliquées	13	Applicable Taxes /	Taxes applical	oles	
		Total Estir	mated Cost /	Coût total estimatif	
Check applicable Basis of Pa Cocher la Base de Paiement ap		Maximum Price / Prix Maximum :		Firm Price / Prix Ferme :	
DAROUZE TONI TONI	exercise value of a TA and its as of this limit, the TA must be PWGSC Contracting signed by DAROUZE	TPSGC atteste(nt) que La limite d'autorisation modifications (excluant les taxes app autorisé et transmise à	e le contenu de c du client est 300 dicables) dépass l'autorité contra	ient autorisé et/ou l'auto ette AT est conforme au 0,000 \$. Lorsque la vale se cette limite, l'AT doit é ctante de TPSGC pour se e l'autorité contractante	ux conditions du contrat ur de l'AT et ses ètre signée par le client autorisation
Signature ALEXANDER S	TFPHFN			ALEXANDER	
PART 4 - CONTRACTOR SIGNATU	_	possylvani dva obligate positiva positiva (positiva positiva positiva positiva positiva positiva positiva posi		:09:15 -04'00 EUR	)'
Mark Coldham Acc	ount Executive	DocuSigned by:		202	20-09-03
Name and Title of individual authorized to sign on bel Nom et titre Signature de la personne autorisée à sigr		Signature Signature	·		Date



Travaux publics of Services gouvernomentaux Canada

A. General Information / Infor	rmations génér	ales				
Contract Number / Numéro du con	strat : 47060-152	116/002/EL				
Contractor Name / Nom du Contra	cteur : DONNA C	ONA INC.				
Task Authorization (TA) No. / Nº de l'autorisation de táches (AT) :	Commitment N l'engagement :		Financial Coding / Code inancier :	Date of Issuance / D d'émission :	Pate Response require Réponse requise p	
2018000108	1000336054		192040060/6001/16100			
B. For Amendments Only / Au	x fins de modif	ication seul	ement			***************************************
Amendment No. / Nº de la modifica	ation : 1	***************************************				
Reason for the Amendment / Raiso	n pour la modific	ation:	and the second s			***************************************
The purpose of this amendment is	*	********************************	me only as project time-	lines were pushed.		***************************************
		***************************************				>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
C. TA Requirements / Exigence	es relatives à l'A	AT				***************************************
Required Resource(s) / Ressource(s)	) requise(s)					
Category / Catégori	ie	Level / Nivea	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Linguistic Profile / Profile linguistique	Required Level(s) of Secu Niveau(x) de sécurité req	, ,
Programmer/Software Developer - Master Data Management (MDM) - Java	, ,	3		English / Anglais	Secret	
Statement of Work (tasks, deliveral	bles, reports, etc.)	/ Énoncé des	travaux (tàches, livrables	s, rapports, etc.)		- Adambian (III)
Background						
The Canada Border Services Agenc Border modernization efforts. The I capital projects and the associated drive business transformation effor	Information, Scier information tech rts and alignment	nce and Techn nology solution of business so	ology Branch (ISTB) sup ons, Traditional IT function olutions in portfolios for	port these efforts with ove ons have been augmented Travelers, Commercial, Co	rsight and alignment of ma with program directorates mmon and Corporate proje	ajor s that ects.
To advance the planning, developr the management of its portfolio of			e Agency's transformation	on agenda, ISTB is impleme	enting an enterprise appro	ach to
In support of the above, the Comm place an Enterprise Building Blocks of the Entry/Exit project is depende	that can be lever	aged by other	initiatives including the	Entry/Exit (E/E), BioMetric		
Tasks and Deliverables						
The Contractor must provide the po to be followed by a final product in identify the resources and the resp	corporating com	ments of the C	SPD project manager (c	or their delegates). It is the	Contractor's responsibility	
Tasks						
The resource will provide CBSA wit	h technical exper	tise and guida	nce on the following top	pics:		



Travnux publics et Services youvernementaux Canada

# TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

Perform analysis of Business User Cases (BUC) and System User Cases (SUC) and create new SUCs as required

- Review of MDM detail design document in order to confirm or identify implementation approach:
- Lead business requirement gathering on party matching scenarios;
- Document the processes and steps needed to build, administer and support all tests, in development and production environments.
- Provide weekly scheduled knowledge transfer sessions to CBSA application support team:
- Assist in the design and implementation of IBM MDM server business rule configurations including PME matching rules, duplicate suspect processing rules, data survivorship rules, business validation rules;
- Customize and fine tune MDM PME matching algorithms based on business requirements on an iterative basis. Each Iteration is to be reviewed with the Project Authority and subject to their approval;
- · Review matching result with business team;
- Support MDM initial load and incremental, iterative MDM process;
- Provide MDM PME matching algorithm with CBSA data source to MDM data mapping document;
- Develop High level design Document based on SUCs and iterative PMT truing rules in accordance with CBSA SLMF.

#### Deliverables

- Provide System Use Cases, system requirements for PME due January 31, 2018;
- Provide detailed design documents for all customized code and configurations for IBM InfoSphere MDM server related solution components due.

  August 31: 2018:
- Provide High Level Design document for PME rules, duplicate suspect processing and data survivorship rules due January 31, 2018;
- Provide Application code, including customizations based on SUCs and iterative tuning rules Due August 31, 2018;
- Configure PME based on iterative tuning requirements. Ongoing to end of TA.
- Provide guidance and assistance in performance tuning, load balancing and optimization strategies for MDM Server environment. Ongoing to end of
- · Perform knowledge transfer to CBSA application support team. Until end of the TA.

All deliverables must be provided in conformance with CBSA's standard desktop operating software which is Microsoft Office Suite (including Word, Excel, Visio and PowerPoint) and Archimate in English.

All deliverables must be provided in a manner that permits integration with CBSA's technical and operational environment as specified by the Project Authority. All deliverables must be in the format of or compatible with the (SLMF) Service Life Cycle Management Framework.

All deliverables must be provided to the Project Authority for their review and acceptance. Should there be problems or issues with the deliverables being presented, the Project Authority will notify the resource of the items that must be modified within five (5) business days of receipt of the deliverable.

### **Fechnical Environment**

As defined in Section 12 of the contract number 47060-152116/002/EL.

### Constraints

At no time and in no way is CBSA data to be removed from CBSA sites, nor will access to or from the Contractor's IT systems through the use of a session or ling (e.g. VPN) be permitted. The contractor must comply with CBSA internal security policies, directives, standards, and guidelines at all times during the contract.

The CBSA's working hours are between 07:00 to 18:00 Monday through Friday, except for Statutory Holidays where Government Offices are closed. These are core hours and are not representative of the duration of a Contractor's work day.

### Language

The proposed Resource will be required to perform the work in English. Every individual proposed in its bid will be fluent in English. The individual proposed must be able to communicate orally and in writing in English without any assistance and with minimal errors.

## Reporting Requirements

If a TA has been authorized, the resource must provide a weekly status report in MS Word electronically to the Project Authority outlining what work was undertaken during the reporting period, what work is still outstanding, and any issues or concerns that the resource wants to identify to the attention of the Project Authority. The status reports must also be supported by a monthly detailed time sheet mapped to deliverables, using standard template.

Travaux publics et Services gravemementaux Cenada

Location of Work	***************************************		icences and a second a second and a second and a second and a second and a second a				
The work is expected to be p the National Capital Region.					ario, K1A OL8 or an alterna	live CBSA location	in
Client Support							
The contractor will be provid required. CBSA will provide e						ocumentation) as	
Period of Services / Période	de service:						***************************************
Initial Start Date / Date de dél	out initiale :	Apr 27, 2017	Initia	al End Date / Date de f	in initiale : Ap	r 30, 2018	
Extented End Date (See Reason	on for the Amendm	ent) / Date de fin proloi	ngée (voir	Raison pour la modifi	cation):	o 28, 2018	
Option To Extend Initial E	nd Date / Option po	our prolonger la date de	e fin initial	e			
Travel Requirement(s) / Exige	nce(s) de voyage :	N/A					
Work Location(s) / Lieu(x) de	trayail :	333 North Rive Capital Region	r Road, Ot	tawa, Ontario, K1A 0Lt	3 or an alternative CBSA lo	cation in the Natio	nal
PART 2 (completed by the Contracto	ir and/or the Technical/Proje	ctAuthority) / PARTIE 2	<b>2</b> (complété p	ar le Contracteur et/ou le Respon	sablo technique / Chargé du projeti		3.5. 3.5.
A. Contractor Resource(s Note: once approved, only the following reso			ouvée, reules l	es ressources sulvantes person)	fournis des services sous la présente Al	-	***************************************
Name / Nom	Catego	ry / Catégorie	Level / Niveau	Linguistic Profile / Profile linguistique	Level of Security / Niveau de sécurité	PWGSC Security File No. / Nº du dossier de sécurité TPSGC	***************************************
	Spec Data Manage	ioftware Developer - ialty in IBM Master ement (MDM) - Java elopment	3	English / Anglais	Secret	95841023	
B. Estimated Cost / Coût e	estimatif						eccoedirector

Category / Catégorie	Level / Niveau	Per Diem Rate / Taux Journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Cost / Coût estimatif
+ prammer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java development	3			\$474,000.00
		E	Estimated Cost / Coût estimatif	\$474,000.00
Total I	Stimated Trav	rel and Living Cost / Coût tota	al estimatif de voyage et de vie	\$0.00
Taxe % applied / % de taxes appliquées	13.000	Applic	able Taxes / Taxes applicables	\$61,620.00
	•	Total Estima	ated Cost / Coût total estimatif	\$535,620.00

By signing this TA, the authorized client authority and/or the PWGSC Contracting Authority certifylies; that the content of this TA is in accordance with the conditions of the Contract.	En apposant sa signature sur l'AT, le client autorisé et/ou l'autorité contractante de TPSGC atteste(nt) que le contenu de cette AT est conforme aux conditions du contrat.			
The client's authorization limit is \$300,000.00. When the value of a TA and its amendments including GST/HST) is in excess of this limit, the TA must be signed by the authorized client and forwarded to the PWGSC Contracting Authority for authorization.	La limite d'autorisation du client est \$300,000,00 (incluant la TPS/TVH) dépasse cette limite, l'AT do l'autorité contractante de TPSGC pour autorisation	oit être signée par le client autorisé et transmise à		
Name of Authorized Client / Nom do client autorise Date	Name of Contracting Authority / Nom de l'autorité contractante	Date		
Signature Physicale	Bastien, Josee Date: Joint 012: 6661-28 deep	-		

***************************************	1001	1 DRUE	MM

Name and Title of individual authorized to sign on behalf of the Contractor / Nom et titre de la personne autorizée à signerau nom de l'entrepreneur

Signature



PART 1 (completed by the Technical Project Authority) / PARTIE 1 (complete par le Responsable technique / Chatrie du project

A. General Information / Informations géné	rales		************************				
Contract Number / Numéro du contrat : 47060-15	2116/002/EL		***************************************		***************************************	***************************************	
Contractor Name / Nom du Contracteur : DONNA C	ONA INC.		***************************************		***************************************		**********
Task Authorization (TA) No. / N° Commitment No. / N° de Financial Coding / Code Date of Issuance / Date de l'autorisation de tâches (AT): l'engagement: financier: d'émission: Réponse required by d'émission:							
2018000108 1000336054					Oct 5, 2018		
B. For Amendments Only / Aux fins de modil	fication seul	ement					***************************************
Amendment No. / № de la modification : 3	***************************************				***************************************		tecoepecescocq
Reason for the Amendment / Raison pour la modific	ation :	***************************************		***************************************	••••••		alacana a con que
The purpose of this amendment is to revise the leve	l of effort by a	n additional days.	***************************************	***************************************	***************************************		***************************************
			***************************************				
C. TA Requirements / Exigences relatives à l'	AT						
Required Resource(s) / Ressource(s) requise(s)							
Category / Catégorie  Level / Niveau d'effort estimatif (jours)  Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)  Linguistic Profile / Profile Required Level(s) of Security requis							
Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java development	Master 3 English / Anglais Secret				·	+	
Statement of Work (tasks, deliverables, reports, etc.)	/ Énoncé des 1	ravaux (tâches, livrables	, rapp	orts, etc.)	1	y	1
Background			<del></del>		***************************************		winesensons
The Canada Border Services Agency (CBSA) is underly Border modernization efforts. The Information, Sciencapital projects and the associated information technology business transformation efforts and alignment To advance the planning, development and implement	nce and Techn nology solution of business so entation of the	ology Branch (ISTB) supp ins. Traditional IT function ilutions in portfolios for	oort th ons had Travel	nese efforts with over ve been augmented ers, Commercial, Con	sight a with pr nmon a	nd alignment of major rogram directorates that and Corporate projects.	
the management of its portfolio of systems, projects In support of the above, the Common Services Portfo place an Enterprise Building Blocks that can be lever, of the Entry/Exit project is dependent on successful o	olio Directorat aged by other	initiatives including the	Entry	/Exit (E/E), BioMetrics	nent Se and Ul	ervice (MDMS), to put in PASS projects. The delive	ery
Tasks and Deliverables							
The Contractor must provide the professional service to be followed by a final product incorporating commodentify the resources and the respective level of efforms.	nents of the C	SPD project manager (o	r their	delegates), It is the C	ontrac	tor's responsibility to	nat,
Tasks							
The resource will provide CBSA with technical expert	ise and quidar	ice on the following too	ics:				

fravaux publics et Services gouvernementaux Canada

# TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

Perform analysis of Business User Cases (BUC) and System User Cases (SUC) and create new SUCs as required

- Review of MDM detail design document in order to confirm or identify implementation approach;
- Lead business requirement gathering on party matching scenarios;
- Document the processes and steps needed to build, administer and support all tests, in development and production environments.
- Provide weekly scheduled knowledge transfer sessions to CBSA application support team;
- Assist in the design and implementation of IBM MDM server business rule configurations including PME matching rules, duplicate suspect processing
  rules, data survivorship rules, business validation rules;
- Customize and fine tune MDM PME matching algorithms based on business requirements on an iterative basis, Each iteration is to be reviewed with the Project Authority and subject to their approval;
- Review matching result with business team;
- Support MDM initial load and incremental, iterative MDM process;
- Provide MDM PME matching algorithm with CBSA data source to MDM data mapping document;
- Develop High level design Document based on SUCs and iterative PMT truing rules in accordance with CBSA SLMF.

### Deliverables

- Provide System Use Cases, system requirements for PME ongoing to end of TA
- Provide detailed design documents for all customized code and configurations for IBM InfoSphere MDM server related solution components, ongoing to end of TA:
- · Provide High Level Design document for PME rules, duplicate suspect processing and data survivorship rules due Ongoing to end of TA;
- Provide Application code, including customizations based on SUCs and iterative tuning rules Due Ongoing to end of TA;
- Configure PME based on iterative tuning requirements. Ongoing to end of TA.
- Provide guidance and assistance in performance tuning, load balancing and optimization strategies for MDM Server environment. Ongoing to end of TA:
- Perform knowledge transfer to CBSA application support team. Until end of the TA.

All deliverables must be provided in conformance with CBSA's standard desktop operating software which is Microsoft Office Suite (including Word, Excel, Visio and PowerPoint) and Archimate in English.

All deliverables must be provided in a manner that permits integration with CBSA's technical and operational environment as specified by the Project Authority. All deliverables must be in the format of or compatible with the (SLMF) Service Life Cycle Management Framework.

All deliverables must be provided to the Project Authority for their review and acceptance. Should there be problems or issues with the deliverables being presented, the Project Authority will notify the resource of the items that must be modified within five (5) business days of receipt of the deliverable.

#### Technical Environment

As defined in Section 12 of the contract number 47060-152116/002/EL.

### Constraints

At no time and in no way is CBSA data to be removed from CBSA sites, nor will access to or from the Contractor's IT systems through the use of a session or ling (e.g. VPN) be permitted. The contractor must comply with CBSA internal security policies, directives, standards, and guidelines at all times during the contract.

The CBSA's working hours are between 07:00 to 18:00 Monday through Friday, except for Statutory Holidays where Government Offices are closed. These are core hours and are not representative of the duration of a Contractor's work day.

#### Language

The proposed Resource will be required to perform the work in English. Every individual proposed in its bid will be fluent in English. The individual proposed must be able to communicate orally and in writing in English without any assistance and with minimal errors.

#### Reporting Requirements

If a TA has been authorized, the resource must provide a weekly status report in MS Word electronically to the Project Authority outlining what work was undertaken during the reporting period, what work is still outstanding, and any issues or concerns that the resource wants to Identify to the attention of the Project Authority. The status reports must also be supported by a monthly detailed time sheet mapped to deliverables, using standard template.

The work is expected to be p the National Capital Region.					ario, K1A 0L8 or an alterna	tive CBSA location i	in		
Client Support									
The contractor will be provide required. CBSA will provide o	ded with a CBSA user each resource with a	· ID, password, worksta building access pass, I	ation and e network ac	-mail address and oth count when working	er materials (supporting on CBSA premises.	documentation) as			
Period of Services / Période	de service:								
Initial Start Date / Date de dé	but initiale :	Apr 27, 2017	Initia	al End Date / Date de f	in initiale :	or 30, 2018			
Extented End Date (See Reas	on for the Amendme	ent) / Date de fin prolo	ngée (voir	Raison pour la modifi	cation):	b 23, 2019			
Option To Extend Initial E	End Date / Option po	ur prolonger la date d	e fin initial	е			***************************************		
Travel Requirement(s) / Exige	ence(s) de voyage :	N/A	N/A						
		333 North Cive	333 North River Road, Ottawa, Ontario, K1A 0L8 or an alternative CBSA location in the National Capital Region						
Work Location(s) / Lieu(x) de	travail :	B .		tawa, Ontario, KTA OLi	o or all atternative CD3A ic	cation in the Nation	ııaı		
		Capital Region					i iai		
PART 2 (completed by the Contract  A. Contractor Resource(s)  Note: ance approved, only the following re	or and/or the Technical/Projects) / Ressource(s) d	(Capital Region	<b>2</b> (complété p	r le Contracteur el ou le Respon	sable technique / Charge du projet)		ı laı		
PART 2 (completed by the Contract  A. Contractor Resource(	or and/or the Technical/Projects) / Ressource(s) d	(Capital Region	<b>2</b> (complété p	r le Contracteur el ou le Respon	sable technique / Charge du projet)	r. PWGSC Security	il di		



Category / Catégorie	Level / Niveau	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Cost / Coût estimatif
+ grammer/Software Developer - Specialty in IBM - Master Data Management (MDM) - Java development	3			\$799,875.00
	\$799,875.00			
Total E	\$0.00			
Taxe % applied / % de taxes appliquées	13.000	Applic	\$103,983.75	
	\$903,858.75			

By signing this TA, the authorized client authority and/or the PWGSC Contracting Authority certify(ies) that the content of this TA is in accordance with the conditions of the Contract.	En apposant sa signature sur l'AT, le client autorisé et/ou l'autorité contractante de TPSGC atteste(nt) que le contenu de cette AT est conforme aux conditions du contrat.			
The client's authorization limit is \$300,000.00. When the value of a TA and its amendments (including GST/HST) is in excess of this limit, the TA must be signed by the authorized client and forwarded to the PWGSC Contracting Authority for authorization. $Q = \frac{1}{2} \left( 1$	La limite d'autorisation du client est \$300,000.00. Lor (incluant la TPS/TVH) dépasse cette limite, l'AT doit ét l'autorité contractante de TPSGC pour autorisation.			
Name of Authorized Client / Norm ductions autorisé Date	Name of Contracting Authority / Nom de l'autorité contractante	Date		
Kalul Firmale	Signature Villeneuve, Julie 3	Digitally signed by Villeneuve, Julie 3 Date: 2018.10.01 10:15:17 -04'00		

PART 4 - CONTRACTOR SIGNATURE / PARTIE 4 - SIGNATURE DU CONTRACTEUR

MACK OLDHOM

ACOUNE LECUNE

Name and Title of individual authorized to sign on behalf of the Contractor / Nom et titre de la personne autorisée à signer au nom de l'entrepreneur

PART 1 (completed by the Technical/Project Authority) / PARTIE 1 (complété par le Responsable technique / Chargé du projet)

A. General Information / Informations gé	nérales							
Contract Number / Numéro du contrat : 47060	-152116/002/	'EL						
Contractor Name / Nom du Contracteur : DONN	IA CONA INC.	***************************************		***************************************		irida e e e e e e e e e e e e e e e e e e e		
Task Authorization (TA) No. / Nº Commitment No. / Nº de l'autorisation de tâches (AT) : Commitment No. / Nº de l'engagement : Financial Coding / Code d'émission : Réponse required by / d'émission : Réponse required by /								
2018000108 1000336054	1000336054 192040060/6001/16100 February 11, 2019 February 15, 2019							
B. For Amendments Only/Aux fins de mo	difications	euler	ment					
Amendment No. / Nº de la modification : 4								
Reason for the Amendment / Raison pour la mo	dification :							***************************************
Amendment #4 is raised for the following:  1) Extend end date from February 23, 2019 to Fe 2) Adc days total 3)Increase total cost from \$799,875 to \$1,254,12	estimated le	vel of	•					
C. TA Requirements / Exigences relatives	<u>à l'AT</u>	***************************************						
Required Resource(s) / Ressource(s) requise(s)								
Category / Catégorie  Level / Niveau d'effort estimatif (jours)  Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)  Linguistic Profile   Required Level(s) of Security / Niveau(x) de sécurité requis								
Programmer/Software Developer - Specialty in II  Master  Data Management (MDM) - Java developmen								
Statement of Work (tasks, deliverables, reports, e	etc.) / Énoncé	des tra	avaux (tâches, livrables,	rappo	orts, etc.)	i		<u></u>
See Attached Annex A - Statement of Work								
Period of Services / Période de service:						•••••••••••		
Initial Start Date / Date de début initiale : Apr 27, 2017 Initial End Date / Date de fin initiale : Apr 30, 2018								
Extented End Date (See Reason for the Amendme	ent) / Date de	fin pr	olongée (voir Raison po	ur la i	modification) :		Feb 23, 2020	
Option To Extend Initial End Date / Option po	our prolonger	la dat	e de fin initiale				•	
Travel Requirement(s) / Exigence(s) de voyage ;	N/A							
Work Location(s) / Lieu(x) de travail :		North I tal Reg		tario,	K1A OL8 or an alterna	tive CB	SA location in the Nation	nal
PART 2 (completed by the Contractor and/or the Technical/Project	t Authority) / P	ART	IE 2 (complété par le Contracte	eur et/ou	ı le Responsable technique / Cha	rgé du proj	(et)	
A. Contractor Resource(s) / Ressource(s) once: once approved, only the following resources may provide services to	***************************************	-	s approuvée, seules les ressources	sulvante:	s peuvent fournir des services so	us la prése	inte AT.	



Travaux publics et Services gouvernementaux Canada

## TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

Name / Nom	Category / Catégorie	Level / Niveau		1	PWGSC Security File No. / Nº du dossier de sécurité TPSGC	
	Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java development	3	English / Anglais	Secret	95841023	

Category / Catégorie	Level / Niveau	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Cost / Coût estimatif
ammer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java development	3			\$1,254,125.00
			Estimated Cost / Coût estimatif	\$1,254,125.00
Total	Estimated Trave	and Living Cost / Coût tota	I estimatif de voyage et de vie	\$0.00
Taxe % applied / % de taxes appliquées	13.000	Applic	able Taxes / Taxes applicables	\$163,036.25

Total Estimated Cost / Coût total estimatif

\$1,417,161,25

## PART 3 - TA APPROVAL BY CANADA / PARTIE 3 - APPROBATION DE L'AT PAR LE CANADA

By signing this TA, the authorized client authority and/or the PWGSC Contracting Authority En apposant sa signature sur l'AT, le client autorisé et/ou l'autorité contractante de TPSGC certify(les) that the content of this TA is in accordance with the conditions of the Contract. atteste(nt) que le contenu de cette AT est conforme aux conditions du contrat, The client's authorization limit is \$300,000.00 . When the value of a TA and its amendments La limite d'autorisation du client est \$300,000.00 . Lorsque la valeur de l'AT et ses modifications (including GST/HST) is in excess of this limit, the TA must be signed by the authorized client and (incluant la TPS/TVH) dépasse cette limite, l'AT doit être signée par le client autorisé et transmise à forwarded to the PWGSC Contracting Authority for authorization. l'autorité contractante de TPSGC pour autorisation. Name of Authorized Client / Nom du client autorisé Name of Contracting Authority / Nom de Digitally signed by PENWARDEN ROBERT DN: <=<a, p=gc, ou=ccra-adrc, ou=PERSONNEL, on=PENWARDEN ROBERT, l'autorité contractante **PENWARDEN** Digitally signed by Villeneuve, Signature Villeneuve, Julie 3 Julie 3 ROBERT Signature Date: 2019.02.13 15:48:38 -05'00'

## PART 4 - CONTRACTOR SIGNATURE / PARTIE 4 - SIGNATURE DU CONTRACTEUR

MARK GUDIAGM	Abel feb 12,2019
Name and Title of individual authorized to sign on behalf of the Contractor / Nom et titre de la personne autorisée à signer au nom de l'entrepreneur	Signature Date

REQ#: 1000336054-2018000108

## STATEMENT OF WORK ANNEX A

### Title

Canada Border Services Agency requires one (1) Programmer / Software Developer – Level 3 – MDM– Java development

### **Background**

The Canada Border Services Agency (CBSA) is undertaking an ambitious agenda of change in support of various Beyond the Border initiatives and Border modernization efforts. The Information, Science and Technology Branch (ISTB) support these efforts with oversight and alignment of major capital projects and the associated information technology solutions. Traditional IT functions have been augmented with program directorates that drive business transformation efforts and alignment of business solutions in portfolios for Travelers, Commercial, Common and Corporate projects.

To advance the planning, development and implementation of the Agency's transformation agenda, ISTB is implementing an enterprise approach to the management of its portfolio of systems, projects and services.

In support of the above, the Common Services Portfolio Directorate (CSPD) has undertaken the Master Data Management Service (MDMS), to put in place an Enterprise Building Blocks that can be leveraged by other initiatives including the Entry/Exit (E/E), Dynamic Risking, GPF, CARM and eManifest Stabilization projects. The delivery of the Entry/Exit project is dependent on successful delivery of the foundational components found in MDMS.

### **Objective**

To acquire professional services for one Application/Software Developer Level 3 to perform the tasks and deliverables below.

## Tasks and Deliverables

The Contractor must provide the professional services to perform the following tasks and deliver the following project deliverables, first in draft format, to be followed by a final product incorporating comments of the CSPD project manager (or their delegates).

### **Tasks**

To provide CBSA with technical expertise and guidance and development support, ongoing until the end of the TA, on the following:

- Participate in Joint Applications Discussion sessions;
- Provide guidelines, and best practices for the MDM detail design document in order to confirm or identify implementation approach;
- Provide weekly scheduled knowledge transfer sessions to CBSA application support team;
- Develop industry best practices for solution implementation, integration, and operation in production;

REQ#: 1000336054-2018000108

- Perform defect analysis and create new requirements as required;
- · Review, modify and update service or solution design, as necessary;
- Provide guidelines, standards and best practices for the integration with IBM Integration Bus
   (IIB) Enterprise Service Bus (ESB);
- Provide guidelines, standards and best practices for the deployment of Application code, including customizations.
- Provide guidance to package a fixed or enhanced solution for redeployment;
- Provide guidance to configure BPM/Data Stewardship for a development workstation environment;
- Provide guidelines, standards and best practices for the install, configuration and testing of Data Stewardship in all CBSA environments;
- Develop, integrate and test MDM components working with an approved interchange data format.
- Provide guidance to the project manager for HR planning.
- Design and implement system integration components to integrate the IBM InfoSphere MDM server solution with CBSA business systems and third party reference data sources;
- Provide guidelines, standards and best practices for the deployment on new high end infrastructure Research and Development Lab(RDL).

### **Deliverables**

The Contractor shall deliver the following:

- Provide system Use Cases' updates, system requirements updates for MDM ongoing to the end of TA;
- Review and comment on CBSA non-functional requirements;
- Document the processes and steps needed to build, administer and support all tests, in development and production environments ongoing to the end of the TA;
- Review and update MDM data mapping and MDM business functional requirements ongoing to the end of the TA;
- Develop functional business requirements for Enterprise Entity Search component by June 16,
   2019:
- Deliver functional requirements for DSC Split functionality by July 30, 2019;
- Organize set of design and requirement review sessions to review DSC split functionality (September 2019);
- Prepare test scenarios for DSC Split functionality by October 30, 2019;
- Deliver preliminary mapping and high level requirements for CARM initiative by May 15, 2019
- Document results of Dynamic Risking data preparation phase and MDM ingestion results by April 30, 2019

REQ#: 1000336054-2018000108

All deliverables must be provided in conformance with CBSA's standard desktop operating software which is Microsoft Office Suite (including Word, Excel, Visio and PowerPoint) and Archimate in English.

All deliverables must be provided in a manner that permits integration with CBSA's technical and operational environment as specified by the Project Authority. All deliverables must be in the format of or compatible with the (SLMF) Service Life Cycle Management Framework.

All deliverables must be provided to the Project Authority for their review and acceptance. Should there be problems or issues with the deliverables being presented, the Project Authority will notify the resource of the items that must be modified within five (5) business days of receipt of the deliverable.

#### **Technical Environment**

As defined in Section 12 of the contract number 47060-152116/002/EL.

#### Constraints

At no time and in no way is CBSA data to be removed from CBSA sites, nor will access to or from the Contractor's IT systems through the use of a session or ling (e.g. VPN) be permitted. The contractor must comply with CBSA internal security policies, directives, standards, and guidelines at all times during the contract.

The CBSA's working hours are between 07:00 to 18:00 Monday through Friday, except for Statutory Holidays where Government Offices are closed. These are core hours and are not representative of the duration of a Contractor's work day.

### Language

The proposed Resource will be required to perform the work in English. Every individual proposed in its bid will be fluent in English. The individual proposed must be able to communicate orally and in writing in English without any assistance and with minimal errors.

### Reporting Requirements

If a TA has been authorized, the resource must provide a weekly status report in MS Word electronically to the Project Authority outlining what work was undertaken during the reporting period, what work is still outstanding, and any issues or concerns that the resource wants to identify to the attention of the Project Authority. The status reports must also be supported by a monthly detailed time sheet mapped to deliverables, using standard template.

REQ#: 1000336054-2018000108

### **Location of Work**

The work is expected to be performed on CBSA premises located at 333 North River Road, Ottawa, Ontario, K1A 0L8 or an alternative CBSA location in the National Capital Region. There is no travel requirement under this Task Authorization.

## **Client Support**

The contractor will be provided with a CBSA user ID, password, workstation and e-mail address and other materials (supporting documentation) as required. CBSA will provide each resource with a building access pass, network account when working in CBSA premises.

A. Contractor Resource(s) / Ressource(s) du Contracteur

# TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

PART 1 (completed by the Technical/Project Author	tty) / PARTI	E 1 (complété par	le Responsable technique / Chargé	é du projet)						
A. General Information / Informat	tions généra	ales .								
Contract Number / Numéro du contrat :	Contract Number / Numéro du contrat : 47060-152116/002/EL									
Contractor Name / Nom du Contracteur : DONNA CONA INC.										
` ,	mmitment No		inancial Coding / Code nancier :		Date of Issuance / Date d'émission :		Response required by / Réponse requise par :			
2018000108	00336054	1:	92040060/6001/16100	Oc	t 24, 2019		Oct 31, 2019			
B. For Amendments Only / Aux fins de modification seulement										
Amendment No. / Nº de la modification	: 5									
Reason for the Amendment / Raison po	our la modifica	ation :								
Amendment #5 is raised for the following:  1) Extend end date from February 23, 2020 to February 23, 2021;  2) Add: days total estimated level of effort;  3)Increase total cost from \$1,254,125.00 to \$1,728,125.00 (All applicable taxes extra).										
C. TA Requirements / Exigences re	elatives à l'A	AT .								
Required Resource(s) / Ressource(s) req	uise(s)									
Category / Catégorie Level / Nive			Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)		Linguistic Profile / Profile   Requirements   Nive		quired Level(s) of Security / /eau(x) de sécurité requis			
Programmer/Software Developer - Specialty in IBM  Master 3  Data Management (MDM) - Java development		3		Engl	English / Anglais			+		
Statement of Work (tasks, deliverables,	reports, etc.)	/ Énoncé des t	ravaux (tâches, livrables	s, rapports	s, etc.)					
See Attached Annex A - Statement of W	Vork									
Period of Services / Période de service	e:									
Initial Start Date / Date de début initiale	Initial Start Date / Date de début initiale : Apr 27, 2017 Initial End Date / Date de fin initiale : Apr 30, 2018									
Extented End Date (See Reason for the Amendment) / Date de fin prolongée (voir Raison pour la modification) : Feb 23, 2021										
Option To Extend Initial End Date / 0	Option pour p	orolonger la da	te de fin initiale							
Travel Requirement(s) / Exigence(s) de v	Travel Requirement(s) / Exigence(s) de voyage : N/A									
Work Location(s) / Lieu(x) de travail : 333 North River Road, Ottawa, Ontario, K1A 0L8 or an alternative CBSA location in the National Capital Region						onal				
PART 2 (completed by the Contractor and/or the Te	echnical/Project Auti	hority) / PART	TIE 2 (complété par le Contract	eur et/ou le Re	sponsable technique / Ch	argé du pr	oiet)			

Note: once approved, only the following resources may provide services under this TA. / Nota: une fois approuvée, seules les ressources suivantes peuvent fournir des services sous la présente AT.

Name / Nom	Category / Catégorie	Level / Linguistic Profile / Niveau Profile linguistique		Level of Security / Niveau	PWGSC Security File No. / Nº du dossier de sécurité TPSGC	
	Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java development	3	English / Anglais			-

B. Estimated Cost / Coût estimatif				
Category / Catégorie	Level / Niveau	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Cost / Coût estimatif
+ prammer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java development	3			\$1,728,125.00
	\$1,728,125.00			
Total	\$0.00			
Taxe % applied / % de taxes appliquées	13.000	Applica	\$224,656.25	
	\$1,952,781.25			

### PART 3 - TA APPROVAL BY CANADA / PARTIE 3 - APPROBATION DE L'AT PAR LE CANADA

By signing this TA, the authorized client authority and/or the PWGSC Contracting Authority tertify(ies) that the content of this TA is in accordance with the conditions of the Contract.	En apposant sa signature sur l'AT, le client autorisé et/ou l'autorité contractante de TPSGC atteste(nt) que le contenu de cette AT est conforme aux conditions du contrat.
The client's authorization limit is \$300,000.00 . When the value of a TA and its amendments including GST/HST) is in excess of this limit, the TA must be signed by the authorized client and forwarded to the PWGSC Contracting Authority for authorization.	La limite d'autorisation du client est \$300,000.00 . Lorsque la valeur de l'AT et ses modifications (incluant la TPS/TVH) dépasse cette limite, l'AT doit être signée par le client autorisé et transmise à l'autorité contractante de TPSGC pour autorisation.
Name of Authorized Client / Nom du client autorisé Date  Digitally signed by DAROUZE TONI Date: 2020.03.31 07:49:29 -04'00'	Name of Contracting Authority / Nom de Date l'autorité contractante Michaud, Daniel Daniel Daniel Daniel Date
Signature	Signature

### PART 4 - CONTRACTOR SIGNATURE / PARTIE 4 - SIGNATURE DU CONTRACTEUR

Mark Coldham	Account Executive	DocuSigned by:	2020-04-06
Name and Title of individual authorized t	o sign on behalf of the Contractor / Nom et titre	Signature	Date
de la personne autorisée à signer au nom	de l'entrepreneur	B384C5A97F0424	



Travaux publics et Services gouvernementaux Canada

# TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

PART 1 (compléted by the Technical/Project Authority) / PARTIE 1 (complété par le Responsable technique / Chargé du projet)

A. General Information / Informations	générales							
Contract Number / Numéro du contrat :	47060-152116/002/E	L						
Contractor Name / Nom du Contracteur :	DONNA CONA INC	<b>&gt;</b> .						
Task Authorization (TA) No. № de l'autorisation de tâches (AT) :	Commitment No. Nº de l'engagement :		Financial Coding Date of Issuance Code financier: Date d'émission :					
2018000107	1000336054	1920400060/60	001/10400	May 8th, 2020	May 11th, 2020			
B. For Amendments Only / Aux fins de	modification seulem	ent						
Amendment No. / Nº de la modification :	6							
Reason for the Amendment / Raison pour la m	odification ·							
Amendment #6 is raised for the following: 1) Exchange resource to continue with ar	:	to	כ					
C. TA Requirements / Exigences relative	ves à l'AT							
Required Resource(s) / Ressource(s) requise(								
		Estimated Level of			Deguired Level(e) of			
Category and Level Catégorie et Niveau	Effort (days) / Niveau d'effort estimatif (jours)	Linguistic Profile / Profile linguistique		Required Level(s) of Security / Niveau(x) de sécurité requis				
	Programmer/Software Developer - Specialty in IBM MastermData Management (MDM) - Java development Level 3			sh / Anglais	Secret			
Statement of Work (tasks, deliverables, reports	s, etc.) / Énoncé des trav	aux (tâches, livrable	s, rapports, et	cc.)				
See attached / Voir pièce jointe								
Period of Services / Période de service:								
Initial Start Date / Date de début initiale :	Nov. 1st, 2018	Init	tial End Date /	Date de fin initiale :	Feb. 23rd, 2021			
Extented End Date (See Reason for the Amendment) / Date de fin prolongée (voir Raison pour la modification):								
☐ Option To Extend Initial End Date / Option	n pour prolonger la date d	de fin initiale						
Optional End Date(s) / Date(s) de fin optionnelle(s)  Status / Statut								
X O In Effect / en vigueur								
			2 =					
Travel Requirement(s) / Exigence(s) de voyage								
Work Location(s) / Lieu(x) de travail :	333 North Rive		tario, K1A 0L8 tional Capital	B or an alternative CE Region	3SA location			

_				DADTIE	- ^	
PA	١ĸ١	- 2	(completed by the Contractor and/or the Technical/Project Authority)	PARII	- 2	(complété par le Contracteur et/ou le Responsable technique / Chargé du projet)

Contractor Resource(s) and Estimated Note: once approved, only the following resources may provide services u					
Name / Nom Category and Level / Catégorie et Niveau	PWGSC Security File No. / Nº du dossier de sécurité TPSGC	Linguistic Profile / Profil linguistique	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Estimated Cost / Coût total estimatif
Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java development		English/Anglais	ţ	Noncomment	\$1,728,125.00
			Estimated (	Cost / Coût estimatif	\$1,728,125.00
Т	otal Estimated Travel an	d Living Cost / Coût	total estimatif	de voyage et de vie	\$0.00
Taxes % applied # % taxes appliquées	13	Applicable Taxes /	Taxes applicat	oles	\$224,656.25
		Total Esti	mated Cost /	Coût total estimatif	\$1,952,781.25
Check applicable Basis of Pa Cocher la Base de Paiement ap		Maximum Price / Prix Maximum :		Firm Price / Prix Ferme :	
DAROUZE TONI TONI	s of this limit, the TA must	autorisé et transmise à l'autorité contractante de TPSGC pour autorisation  Digitally signed by KNOX JOSH DIVIDITATION DE L'ADRIGNATION DE L'A			
Name of Technical Authority / Nom de l'autorité techni		Name of Contracting A	Authority / Nom d	Delez 2020-09-04 or 72-35 Food PhartomPDF Version: 9 7 0 e l'autorité contractante	Date
Signature		Signature			
PART 4 - CONTRACTOR SIGNATUI	RE / PARTIE 4 - SIG	GNATURE DU C	CONTRACT	EUR	
		DocuSigned by:			
	ount Executive	Mach	-	202	20-09-03
Name and Title of individual authorized to sign on beh Nom et titre Signature de la personne autorisée à sign		Signature Signature			Date



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# TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

			le les gradell melanus 7.0 spoi	an bloom		(inter		
A. General Information / Infor	mations génér	ales						
Contract Number / Numéro du con	trat : 47060-152	116/002/EL						
Contractor Name / Nom du Contra	cteur : DONNA CC	ONA INC.						
Task Authorization (TA) Ņo. / № de l'autorisation de tâches (AT) :	Task Authorization (TA) No. / N° Commitment No. / N° de Financial Coding / Code Date of Issuance / Date Response required by /							
2018000108	1000336054	<del></del>	92040060/6001/16100	Apr 24, 2017	Apr 26, 2017			
B. For Amendments Only / Au	x fins de modif	ication seule	ment					
Amendment No. / Nº de la modifica								
Reason for the Amendment / Raiso	t	ation:						
neason for the Americanetic / Naisc	m pour la modific	ation;	<u>;</u>					
C. TA Requirements / Exigence	es relatives à l'	AT						
Required Resource(s) / Ressource(s		<u></u>						
Category / Catégori	ie	Level / Niveau	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Linguistic Profile / Profile linguistique	Required Level(s) of Security Niveau(x) de sécurité requis			
Programmer/Software Developer - Master Data Management (MDM) - Java		3	· • · · · · · · · · · · · · · · · · · ·	English / Anglais	Secret	+		
Statement of Work (tasks, deliveral		/ Énoncé des t	ravaux (tàches, livrables	s, rapports, etc.)	L.,			
Background: The Canada Border Services Agency (CBSA) is undertaking an ambitious agenda of change in support of various Beyond the Border initiatives and Border modernization efforts. The Information, Science and Technology Branch (ISTB) support these efforts with oversight and alignment of major capital projects and the associated information technology solutions. Traditional IT functions have been augmented with program directorates that drive business transformation efforts and alignment of business solutions in portfolios for Travelers, Commercial, Common and Corporate projects. To advance the planning, development and implementation of the Agency's transformation agenda, ISTB is implementing an enterprise approach to the management of its portfolio of systems, projects and services. In support of the above, the Common Services Portfolio Directorate (CSPD) has undertaken the Master Data Management Service (MDMS), to put in place an Enterprise Building Blocks that can be leveraged by other initiatives including the Entry/Exit (E/E), BioMetrics and UPASS projects. The delivery of the Entry/Exit project is dependent on successful delivery of the foundational components found in MDMS.								
Objective:								
To acquire professional services for one Application/Software Developer Level 3 to perform the tasks and deliverables below.								
Tasks and Deliverables:					• •			
The Contractor must provide the p to be followed by a final product in	rofessional service scorporating com	es to perform t ments of the C	he following tasks and ( SPD project manager (o	deliver the following projec or their delegates).	ct deliverables, first in draft fr	ormat		
Tasks:								
Provide CBSA with technical experi	tise and guidance	on the follows	na tonicsi					

Page 1 of 4

- Provide guidelines, and best practices for the MDM detail design document in order to confirm or identify implementation approach;
- · Provide weekly scheduled knowledge transfer sessions to CBSA application support team;
- · Develop industry best practices for solution implementation, integration, and operation in production;
- Perform defect analysis and create new requirements as required;
- · Review, modify and update service or solution design, as necessary;
- Provide guidelines, standards and best practices for the Integration with IBM Integration Bus (IIB) Enterprise Service Bus (ESB);
- Provide guidelines, standards and best practices for the integration IBM InfoSphere Information Server (IIS) QualityStage and DataStage;
- · Provide guidance to package a fixed or enhanced solution for redeployment;
- Provide guidelines, standards and best practices for the install, configuration and testing of MDM products to all CBSA environments;
- Provide guidelines, standards and best practices for the deployment of Data Stewardship Business Process Manager (BPM) to eManifest YT environment by August 31, 2017;
- Design and develop IBM MDM server solution components including web service customizations and user interface customizations using Java technologies:
- Design and implement system integration components to integrate the IBM InfoSphere MDM server solution with CBSA business systems and third
  party reference data sources;
- Provide guidelines, standards and best practices for the deployment of MDM on new high end infrastructure Research and Development Lab(RDL) by August 31, 2017:
- Provide guidance with the configuration of RDL for production sizing by August 31, 2017;
- · Review and comment on the MDM Server components hardware sizing;
- Provide guidelines, standards and best practices for IBM MDM implementation. Until end of the Task Authorization (TA);
- Review, comment and update MDM data mapping and MDM business functional requirement;
- Provide guidance to the project manager for HR planning. Until the end of the TA; and
- Provide guidance with the MDM security frameworks and integration with CBSA security policy and identity stores.

#### Deliverables:

The Contractor shall provide the following:

- Design eMan MDM database migration strategy by April 30, 2017;
- Document the processes and steps needed to build, administer and support all tests, in development and production environments ongoing until the end of the TA:
- Provide guidelines, standards and best practices for the performance tuning, load balancing and optimization strategies for MDM Server environment. Ongoing until the end of the TA;
- Develop MDM high level design and detail design documents by April 30, 2017;
- Review and comment on CBSA non-functional requirements by May 5, 2017;
- Review and update Critical Design Review (CDR) documentation by October 31, 2017;
- Develop System requirements, System Use Cases by May 12, 2017;
- Provide guidelines, standards and best practices for the deployment of Application code, including customizations. Ongoing until the end of the TA;
- Develop, integrate and test MDM components working with an approved interchange data format. Ongoing until the end of the TA; and
- Develop MDM server solution component packaging and promotion strategy document by May 31, 2017.

All deliverables must be provided in conformance with CBSA's standard desktop operating software which is Microsoft Office Suite (including Word, Excel, Visio and PowerPoint) and Archimate in English.

All deliverables must be provided in a manner that permits integration with CBSA's technical and operational environment as specified by the Project Authority. All deliverables must be in the format of or compatible with the (SLMF) Service Life Cycle Management Framework.

All deliverables must be provided to the Project Authority for their review and acceptance. Should there be problems or issues with the deliverables being presented, the Project Authority will notify the resource of the Items that must be modified within five (5) business days of receipt of the deliverable.

#### Technical Environment:

As defined in Section 12 of the contract number 47060-152116/002/EL

### Constraints

At no time and in no way is CBSA data to be removed from CBSA sites, nor will access to or from the Contractor's IT systems through the use of a session or ling (e.g. VPN) be permitted. The contractor must comply with CBSA internal security policies, directives, standards, and guidelines at all times during the contract.

Trayaux publics et Services gouvernementaux Canada

he CBSA's working hours are these are core hours and are n	petween 07:00 to 18:00 of representative of the	Monday through I	riday, exc tractor's w	ept for Statutory Holid ork day.	days where Government	Offices are closed.
Reporting Requirements	•					
The resource must provide a w eporting period, what work is The status reports must also be	still outstanding, and a	ny issues or concer	ns that th	e resource wants to id	lentify to the attention o	dertaken during the f the Project Authority.
Client Support						
The contractor will be provided equired. CBSA will provide eac	d with a CBSA user ID, p ch resource with a build	assword, workstat ling access pass, no	ion and e- etwork acc	mail address and othe count when working in	er materials (supporting n CBSA premises.	documentation) as .
eriod of Services / Période d	le service:					
nitial Start Date / Date de débu	ut Initiale : Apr 2	27, 2017	Initia	l End Date / Date de fil	n initiale:	pr 30, 2018
xtented End Date (See Reason	for the Amendment) /	Date de fin proion	gée (voir l	Raison pour la modific	ation);	
Option To Extend Initial End	d Date / Option pour pr	olonger la date de	fin initiale	2		
ravel Requirement(s) / Exigen	ce(s) de voyage ;	No				
Vork Location(s) / Lieu(x) de tr	avail:	333 North River Capital Region.	Road, Ott	awa, Ontario, K1 A 0L8	or an alternative CBSA I	ocation in the National
A. Contractor Resource(s)	/ Ressource(s) du Co	ntracteur			Countir des services sous la présente	
Name / Nom	y the following resources may provide services under this TA. / Nota : une fols a  Nom Category / Catégorie		Level / Niveau	Linguistic Profile / Profile linguistique	Level of Security / Nivea de sécurité	PWGSC Security
	Programmer/Softw Specialty in IE Data Managemen	BM Master	3	English / Anglais	SECRET	95841023

Category / Catégorie	Level / Niveau	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (Jours)	Total Cost / Coût estimatif
+ prammer/Software Developer - Specialty In IBM Master Data Management (MDM) - Java development	3			\$474,000.00
	\$474,000,00			
Total E	\$0.00			
Taxe % applied / % de taxes appliquées	13.000	Applic	\$61,620.00	
		Total Estima	ated Cost / Coût total estimatif	\$535,620.00

	Total Estimated Cost / Coût total estimatif	\$535,620.00
PARTINES APPROVANTES APPR	OBATION DE L'AT PAR LE CAMA	DA A
Gy signing this TA, the authorized client authority and/or the PWGSC Contracting Authority certifylies; that the content of this TA is in accordance with the conditions of the Contract.	En apposant sa signature sur l'AT, le client autorisé et/ou atteste(nt) que le contenu de cette AT est conforme aux	
The client's authorization limit is \$300,000.00. When the value of a TA and its amendments fincluding GST/HST) is in excess of this limit, the TA must be signed by the authorized client and forwarded to the PWGSC Contracting Authority for authorization.	La limite d'autorisation du client est \$300,000.00 . Lorsqu (incluant la TPS/IVH) dépasse cette limite, l'AT doit être s Fautorité contractante de TPSGC pour autorisation	
Name of Authorized Client   Nom du client autorise Date	Name of Contracting Authority / Nom de	April 27,2017
mm	Janorité contractante	
Signature	Signature	
PARTE LEONTRACTOR MONATURE / PARTE 4 - SIGN	ATURE DU CONTRACTEUR	- 但表語表

PARTE CONTRA	ACIC MENATURE / NONTE	-SIGNATUR	DU CON	TRACTEUR

			EXECUTUVE
Name and Title o	of individual authorized to	sign on behalf of the C	ontractor / Nom et iltre
de la personne ai	utorisée à signer au nom	de l'entrepreneur	



Traverum publico et Services gouvernments

# TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

A. General Information / Infor	matio	ns généra	des						
Contract Number / Numéro du con	trat:	47060-152	116/001/EL						
Contractor Name / Nom du Contrac	teur:	вм			often order of the second of t	> .	***************************************		
Task Authorization (TA) No. / N° de l'autorisation de tâches (AT) :		mitment No agement :		Financial C financier :	oding / Code	Date of Issuance / d'émission :		conse required by a	f
2018000184	1000	335562		195050020		May 8, 2017	May	9, 2017	
B. For Amendments Only / Au	x fins	de modifi	cation seu	lement					
Amendment No. / Nº de la modifica	ition :						***************************************		
Reason for the Amendment / Raiso	n pou	r la modific	ation :				•••••	······································	
	***********		······································						*******
C. TA Requirements / Exigence	es rela	atives à l'A	VI.						
equired Resource(s) / Ressource(s)	) requi	se(s)							,
Category / Catégorie Level / Ni		Level / Nive	Estimated Level of Effort (days) / Niveau U d'effort estimatif (jours)		Linguistic Profile / Profil linguistique		eveks) of Security / le sécurité requis	***************************************	
Programmer/Software Developer - Specialty in 3 Operational Decision Manager (ODM)					Énglish / Anglais	Secret		~ (C) (J) (A)	
Statement of Work (tasks, deliveral	bles, re	ports, etc.)	/ Énoncé des	travaux (ti	iches, livrable	s, rapports, etc.)			) ~~
Please see the attached SOW for d	etalls p	pertaining t	o the work be	eing compl	eted under th	is task authorization.			
Period of Services / Période de se	ervice:								
nitial Start Date / Date de début in	itiale :	Ма	y 10, 2017		Initial End Da	ite / Date de fin Initiale :	. 0	ctober 31, 2017	жен
Option To Extend initial End Da	ite / Oj	ption pour p	orolonger la i	date de fin	initiale				20000000
Optional End Date(s) /	/ Date(	s) de fin opi	tionnelle(s)	***************************************		Status / S	itatut		T
Octob	per 31,	, 2018			◯ In effect / en vigueur				
fravel Requirement(s) / Exigence(s	) de vo	yage:	Travel ne	ot required					
Work Location(s) / Lieu(x) de traval	lr.		333 North River Road, Ottawa, ON (National Capital Region)						
			\$	***************************************	********************************	and the same of th			********

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# TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

Name / Nom	Category / Catégorie	Level / Niveau	Linguistic Profile / Profile linguistique	Level of Security / Niveau de sécurité	PWGSC Security File No. / Nº du dossier de sécurité TPSGC	·
	Programmer/Software Developer - Specialty in Operational Decision Manager (ODM)	ŝ	English / Anglais	Secret		

Category / Catégorie	Level / Niveau	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Cost / Coût estimatif
grammer/Software Developer - Specialty Operational Decision Manager (ODM)	3			\$285,600.00
		,	Estimated Cost / Coût estimatif	\$285,600.00
Total	Estimated Trav	rel and Living Cost / Coût tot	al estimatif de voyage et de vie	\$0.00
Taxe % applied / % de taxes appliquées	13.000	Арра	cable Taxes / Taxes applicables	\$37,128.00
		Total Estim	ated Cost / Cout total estimati	\$322,728.00

### PART 3 - TA APPROVAL BY CANADA / PARTIE 3 - APPROBATION DE L'AT PAR LE CANADA

By signing this TA, the authorized client authority and/or the PWGSC Contracting Authority certifyljes) that the content of this TA is in accordance with the conditions of the Contract.	En apposant sa signature sur l'AT, le client autorisé et/ou l'autorité contractante de TPSGC atteste(nt) que le contenu de cette AT est conforme aux conditions du contrat.
The client's authorization limit is \$305,00.00. When the value of a TA and its amendments linesaling GSTRIST is in excess of this limit, the TA must be signed by the authorized client as forwarded to the PWSSC Conteacting Authority for authorization.  Robert Penulards Market Monday Client Nom ductient auterisé  Name of Authorized Client Nom ductient auterisé  Late   La limite of autorisation du client est \$300,000.00. Lorsque le valour de l'AT et ses modifications dincluant la TPS/TNM dépasse cette limite, TAT doit être signée parle client autorisé et transmise. Fautprité contractante de TPSGC pour autorisation.  ABIL HEDD PLB Name of Contracting Authority / Nom de Vautorité contractante  La limite d'autorité contractante  La limite d'autorité contractante  La limite d'autorité contractante  La limite d'autorité de l'AT et ses modifications de l'autorité contractante  La limite d'autorité et l'AT et ses modifications de l'autorité contractante  La limite d'autorité et l'autorité et l'autorité contractante  La limite d'autorité et l'autorité et l'autorité contractante l'autorité	

## PART 4 - CONTRACTOR SIGNATURE / PARTIE 4 - SIGNATURE DU CONTRACTEUR

Authorized Seller  Names and Title of Individuel authorized to sign on behalf of the Contractor / Nom et titre de la personne autorisée à signer au nom de l'entrepreneur	Signature	May 11, 2017



Travaux publics et Services gouvernementaux Canada

# TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

PART 1 (completed by the Technical/Project Authority) / PARTIE 1 (complete par le Responsable technique / Chargé du projet)

A. General Information / Informations of	jénérales		There have the constitution of the state of						
Contract Number / Numéro du contrat :	47060-152116/002/E	L	even.						
Contractor Name / Nom du Contracteur :	Contractor Name / Nom du Contracteur : DONNA CONA INC.								
Task Authorization (TA) No. № de l'autorisation de tâches (AT) :	Commitment No. N° de l'engagement :	Financial Coding Date of Issuance Code financier: Date d'émission			Response required by Réponse requise d'ici le :				
2018000634	1000337353	1920400060/6001/10400		Jan 18, 2020	29-Jan-2020				
B. For Amendments Only / Aux fins de	modification seulem	nent							
Amendment No. / Nº de la modification :	4								
Reason for the Amendment / Raison pour la m	odification :		27						
Amendment #4 is raised for the following:  1) Extend end date from February 23, 202  2) Add day day  3) Increase total cost from	nys total estimated lev		a).						
C. TA Requirements / Exigences relative	es à l'AT								
Required Resource(s) / Ressource(s) requise(s	5)								
Category and Level Catégorie et Niveau	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)		: Profile / Profile guistique	Required Level(s) of Security / Niveau(x) de sécurité requis					
Programmer/Software Developer - Spec IBM Master Data Management (MDM) - Level 3	ialty in Specialty in Java Development		Englis	sh / Anglais					
Statement of Work (tasks, deliverables, reports	, etc.) / Énoncé des trav	aux (tâches, livrable	s, rapports, etc	c.)	:				
See attached / Voir pièce jointe									
Period of Services / Période de service:									
Initial Start Date / Date de début initiale :	Aug 16,2017	Init	ial End Date /	Date de fin initiale :	23-Feb-2021				
Extented End Date (See Reason for the Amend	ment) / Date de fin prolo	ongée (voir Raison p	our la modifica	ation):					
Option To Extend Initial End Date / Option	pour prolonger la date d	e fin initiale		1					
Optional End Date(s) / Date(s) de fin	optionnelle(s)		Sta	tus / Statut					
Х		O In Effect / en vigueur							
Travel Requirement(s) / Exigence(s) de voyage	n/a								

Nork Location(s) / Lieu(x) de travail :	333 North River Road, Ottawa, Ontario, K1A 0L8 or an alternative CBSA location in the National Capital Region							
PART 2 (completed by the Contractor and/or the Technical/Project	t Authority) / PARTIE 2 (cd	omplété par le Contracteur et/ou	le Responsable techn	íque / Chargé du projet)				
Contractor Resource(s) and Estimated lote: once approved, only the following resources may provide services u	Cost / Ressource(s) nder this TA. / Nota : une fois approuvé	du Contracteur e	et Coût tota es peuvent fournir des	Lestimatif services sous la présente AT				
Name / Nom Category and Level / Catégorie et Niveau	PWGSC Security File No. / Nº du dossier de sécurité TPSGC	Linguistic Profile / Profil linguistique	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Estimated Cost / Coût total estimatif			
Programmer/Software Developer - Specialty n IBM Master Data Management (MDM) - Java Development		English/Anglais	•					
			Estimated	L Cost / Coût estimatif				
1	Total Estimated Travel ar	nd Living Cost / Coût	total estimati	f de voyage et de vie	\$0.00			
Taxes % applied # % taxes appliquées	13	Applicable Taxes /	Taxes applica	bles				
		Total Esti	mated Cost /	Coût total estimatif				
Check applicable Basis of Pa Cocher la Base de Paiement a		Maximum Price / Prix Maximum :		Firm Price / Prix Ferme :				
PART 3 - TA APPROVAL BY CANA	and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and t	in the second section						
By signing this TA, the authorized client authority and Authority certify(ies) that the content of this TA is in a conditions of the Contract.  The client's authorization limit is \$150,000. When the amendments (excluding Applicable Taxes) is in except be signed by the authorized client and forwarded to the Authority for authorization.	ccordance with the value of a TA and its ss of this limit, the TA must	TPSGC atteste(nt) qui La limite d'autorisation modifications (excluant les taxes ap	e le contenu de n du client est 15 plicables) dépas	client autorisé et/ou l'autocette AT est conforme au 60,000 \$. Lorsque la vale dese cette limite, l'AT doit actante de TPSGC pour	ux conditions du contrat. ur de l'AT et ses être signée par le client			
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	_			7 egs				

Mark Coldham Account Executive	DocuSigned by:	2020-03-17
Name and Title of individual authorized to sign on behalf of the Contractor / Nom et titre Signature de la personne autorisée à signer au nom de l'entrepren	Signature Signature	Date

PART 1 (completed by the Technical/Project.	Authoritys / PART	IE 1 (complété p	ar le Rasponsable sechnique / Charg	je du projet)	
A. General Information / Infor	mations génér	ales	<u>annuntamentamentamentamentamentamentamentame</u>	Market Market State Control of the C	1. The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of th
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2018000634	1000337353		192040060/2001/16100	January 8, 2018	January 12, 2018
B. For Amendments Only / Au	x fins de modif	ication seul	ement		
Amendment No. / Nº de la modifica	ation : 1				
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The MDM project delivery timeline be completed until all contentmen	es have changed a		rements have been pres	ented which requires addit	ional MDM Development work to
C. TA Requirements / Exigence	es relatives à l'/	AT			
Required Resource(s) / Ressource(s)					
Category / Categori	é	Level / Nivea	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)		Required Level(s) of Security / Niveau(x) de sécurité requis
Programmer/Software Developer - Master Data Management (MDM) - Java				English / Anglais	Secret .
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Programmer / Software Developer	- Level 3 - MDM-	- Java develor	oment		v.
Background					
The Canada Border Services Agency Border modernization efforts. The I capital projects and the associated drive business transformation effor	Information, Scien Information tech	nce and Techn mology solutio	nology Branch (ISTB) sup ons, Traditional IT functio	port these efforts with over ons have been augmented	rsight and alignment of major With program directorates that
To advance the planning, develope the management of its portfolio of				on agenda, ISTB (s Impleme	enting an enterprise approach to
In support of the above, the Comm place an Enterprise Building Blocks of the Entry/Exit project is depende	that can be lever	raged by other	r initiatives including the	e Entry/Exit (E/E), BioMetrics	
Objective					
To acquire professional services for	one Application/	/Software Dev	eloper Level 3 to perforr	m the tasks and deliverable	s below.
Tasks and Deliverables					

The Contractor must provide the professional services to perform the following tasks and deliver the following project deliverables, first in draft format, to be followed by a final product incorporating comments of the CSPD project manager (or their delegates).

#### Tasks

To provide CBSA with technical expertise and guidance and development support, ongoing until the end of the TA, on the following:

- Participate in Joint Applications Discussion sessions;
- Provide guidelines, and best practices for the MDM detail design document in order to confirm or identify implementation approach;
- Provide weekly scheduled knowledge transfer sessions to CBSA application support team;
- Mentor CBSA staff on MDM and Data Stewardship deliverables to enable the CBSA to provide on-going support and maintenance
- Develop industry best practices for solution implementation, integration, and operation in production;
- · Perform defect analysis and create new requirements as required;
- · Review, modify and update service or solution design, as necessary;
- · Provide guidelines, standards and best practices for the integration with IBM integration Bus (IIB) Enterprise Service-Bus (ESB);
- Provide guidelines, standards and best practices for the deployment of Application code, including customizations,
- Provide guidance to package a fixed or enhanced solution for redeployment;
- Provide guidance to configure BPM/Data Stewardship for a development workstation environment;
- Provide guidelines, standards and best practices for the Install, configuration, development and testing, of Data Stewardship in all CBSA environments:
- · Develop, integrate and test MDM components working with an approved interchange data format,
- · Provide guidance to the project manager for HR planning.
- Design and Implement system integration components to integrate the IBM InfoSphere MDM server solution with CBSA business systems and third party reference data sources;
- · Provide guidelines, standards and best practices for the deployment on new high end infrastructure Research and Development Lab (RDL).

#### Deliverables

#### The Contractor shall deliver the following:

- Define and review System Use Cases (SUCs) including but not limited to: MDM mapping transformation rules, Search, Collapse process, Uncollapse
  process, Split process, Master record maintain process, and Data validation process by February 15, 2018;
- Create MDM processes and services including but not limited to: Search, Collapse, Uncollapse, Split, Maintain master record, Update, Data quality assessment, and Update reference data by May 31, 2018;
- Integrate the code bases for Commercial MDM and Traveller MDM by May 31, 2018
- Create Data Steward tasks and new flows, including development of new and changes to the Data Stewardship User Interface, to maintain master record and Update/Refresh reference data by November, 30, 2018;
- Develop, integrate and test MDM components working with an approved interchange data format by March 31, 2018;
- Design and implement data cleansing for Data Stewardship by November, 2018;
- Review and update Critical Design Review (CDR) documentation including but not limited to: System requirements specifications, Architecture and design specification (ADS)-part 3, 4 and 5, ADS Annex A, System-Requirement Traceability Matrix, and Release notes by February 15, 2018;
- Review and comment on CBSA for MDM non-functional requirements by February 15, 2018;
- -Review and comment on CBSA. for BPM and Data Stewardship non-functional requirements by September 15, 2018;
- Document the processes and steps needed to build, administer and support all tests, in development and production environments March 31, 2018;
- Document MDM Stewardship Operational Manual; and
- Resolve assigned defects within the user acceptance testing phase from June 1 to September 31 2018.
- All deliverables must be provided in conformance with CBSA's standard desktop operating software which is Microsoft Office Suite (including Word, Excel, Visio and PowerPoint) and Archimate in English.
- All deliverables must be provided in a manner that permits integration with CBSA's technical and operational environment as specified by the Project Authority. All deliverables must be in the format of or compatible with the (SLMF) Service Life Cycle Management Framework.
- All deliverables must be provided to the Project Authority for their review and acceptance. Should there be problems or issues with the deliverables being presented, the Project Authority will notify the resource of the items that must be modified within five (5) business days of receipt of the deliverable.

#### Technical Environment

As defined in Section 12 of the contract number 47060-152116/002/EL.

[[Constraints						in a single of the single of t
At no time and in no way is CBS	A data to be removed l	from CBSA sites, r	or will ac	cess to or from the Co	ntractor's IT systems throu	oh the use of a session
or ling (e.g. VPN) be permitted. the contract.						
The CBSA's working hours are b					idays where Government	Offices are closed.
These are core hours and are no Language	ot representative of the	duration of a Cor	itractor's	work day.		
The proposed Resource will be proposed must be able to comm						sh. The individual
Reporting Requirements						w · ·
If a TA has been authorized, the was undertaken during the repo attention of the Project Authori template.	orting period, what wo	rk is still outstand	ing, and a	ny issues or concerns	that the resource wants to	identify to the
Location of Work						
The work is expected to be perfithe National Capital Region. The					irlo, K1A OL8 or an alternat	ive CBSA location in
Client Support						
The contractor will be provided required. CBSA will provide each						ocumentation) as
Period of Services / Période de	service:					
Initial Start Date / Date de début	Initiale : Date	of TA Award	Initia	l End Date / Date de f	in initiale : Fet	oruary 23, 2018
Extented End Date (See Reason f	or the Amendment) / [	Date de fin prolon	gée (voir	Raison pour la modific	ration):	iuary 31, 2019
Option To Extend Initial End	Date / Option pour pro	longer la date de	fin initial	9		
Travel Requirement(s) / Exigence	e(s) de voyage :	N/A				
Work Location(s) / Lleu(x) de trav	/all :	355 North River	Road, Ott	awa, Ontario K1A 0L8		
PART 2 (completed by the Contractor an	d/or the Technical/Project Author	, / PARTIE 2	(complété pa	ı le Contracteur et/où le Respon	iable (echnique / Chargé dis projet)	
A. Contractor Resource(s) / Note: once approved, only the following resource			and and the fi	e rationer at this area part	income due camplese conse la précapte AT	
The same above to the same same same same same same same sam	PARISH MITTHE SECTION WINDS COM	in the same to a spirit		a les fon des autorités par territ		PWGSC Security
Name / Nom	Category / Ca	tégorie	Level / Niveau	Linguistic Profile / Profile linguistique	Level of Security / Niveau de sécurité	
	Programmer/Softwa Specialty in IBN					
	Data Management developm	(MDM) - Java	3	English / Anglals	Secret	95866506
B. Estimated Cost / Cout est	imatif			<u> </u>		

Category / Categorie	Level / Níveau	Per Diem Rate / Taux - Journaller	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Cost / Coût estimatif
prammer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java development	3			\$252,800.00
AMENDMENT 001 - Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java development	3			\$418,700.00
	TOTAL TOTAL TOTAL STATE	E	stimated Cost / Coût estimation	\$671,500.00
Total E	stimated Trav	el and Living Cost / Cour tota	l estimatif de voyage et de vie	\$0.00
Taxe % applied / % de taxes appliquées	13.000	Applic	\$87,295.00	
A TOTAL STATE OF THE STATE OF T	-	Total Estima	ated Cost / Coût total estimatil	- \$758,795,00

## PART 3 - TA APPROVAL BY CANADA / PARTIE 3 - APPROBATION DE L'AT PAR LE CANADA

By signing this TA, the authoric certify(les) that the content of	zed client authority a this TA is in accorda	ind/or the PWG ice with the car	SC Contracting / additions of the C	Authority ontract.	En apposant sa signature sur l'AT, le client autor atteste(nt) que le contenu de cette AT est confo
1					

The cilent's authorization limit is \$300,000.00. When the value of a TA and its amendments (including GST/HST) is in excess of this limit, the TA must be signed by the authorized client and forwarded to the PWGSC Contracting Authority for authorization.

risé et/ou l'autorité contractante de TPSGC rme aux conditions du contrat.

La limite d'autorisation du client est \$300,000.00 . Lorsque la valeur de l'AT et ses modifications (incluant la TPS/TVH) dépasse cette limite, l'AT doit être signée par le client autorisé et transmise à Pautorité contractante de TPSGC pour autorisation.

PART 4 - CONTRACTOR SIGNATURE / PARTIE 4 - SIGNATURE DU CONTRACTEUR

Name and Title of individual authorized to sign on behalf of the Contractor / Nom et titre

de la personne autorisée à signer au nom de l'entrepreneur

ACCOUNT BUEC

Jan. 8,2018

/ DADTIE 4

Completed by the Technical/Project A	uthority) / F 2515 1	I l‱ I (complété pa	r le Responsable technique / Chargo	ė du proje	et)			
A. General Information / Infor	mations génér	ales		<del></del>				
Contract Number / Numéro du cont	rat : 47060-152	116/002/EL						200000000000000000000000000000000000000
Contractor Name / Nom du Contrac	teur : Donna Co	nna Inc.	•	*************				
Task Authorization (TA) No. / № de l'autorisation de tâches (AT) :	Commitment No		Financial Coding / Code Financier:	***************************************	Date of Issuance / D d'émission :	ate	Response required by Réponse requise par :	
2018000634	1000337353		192040060/2001/16100		January 15, 2019		January 22 , 2019	
B. For Amendments Only/Aux	fins de modifi	cation seule	ement					***************************************
Amendment No. / № de la modificat	tion : 2			***************************************				
Reason for the Amendment / Raison	n pour la modific	ation :		***************************************		***************************************		
Amendment#2 The MDM project delivery time line be completed until all contentment days. TA value will increase by \$3	is delivered. The	refore, extend	ing the end date from J	anuary	, 31, 2019 to Februar	ional M y 23, 20	1DM Development work 119 and add an addition	k to nal
C. TA Requirements / Exigence	s relatives à l'A	I						
Required Resource(s) / Ressource(s)	requise(s)							
Category / Catégorie	:	Level / Niveau	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Lingu	uistic Profile / Profile linguistique		ed Level(s) of Security / u(x) de sécurité requis	/
Programmer/Software Developer - S Master Data Management (MDM) - Java		3		E	English / Anglals	Secret		

Traveux publics et Services gouvernementaux Canade

## TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

Statement of Work (tasks, deliverables, reports, etc.) / Énoncé des travaux (tâches, livrables, rapports, etc.)

Title

Programmer / Software Developer - Level 3 - MDM- Java development

Background

The Canada Border Services Agency (CBSA) is undertaking an ambitious agenda of change in support of various Beyond the Border initiatives and Border modernization efforts. The Information, Science and Technology Branch (ISTB) support these efforts with oversight and alignment of major capital projects and the associated information technology solutions. Traditional IT functions have been augmented with program directorates that drive business transformation efforts and alignment of business solutions in portfolios for Travelers, Commercial, Common and Corporate projects.

To advance the planning, development and implementation of the Agency's transformation agenda, ISTB is implementing an enterprise approach to the management of its portfolio of systems, projects and services.

In support of the above, the Common Services Portfolio Directorate (CSPD) has undertaken the Master Data Management Service (MDMS), to put in place an Enterprise Building Blocks that can be leveraged by other initiatives including the Entry/Exit (E/E), BioMetrics and UPASS projects. The delivery of the Entry/Exit project is dependent on successful delivery of the foundational components found in MDMS.

Objective

To acquire professional services for one Application/Software Developer Level 3 to perform the tasks and deliverables below.

Traveux publics et Services gouvernementaux Capada

# TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

#### Tasks and Deliverables

The Contractor must provide the professional services to perform the following tasks and deliver the following project deliverables, first in draft format, to be followed by a final product incorporating comments of the CSPD project manager (or their delegates).

#### Tasks

To provide CBSA with technical expertise and guidance and development support, ongoing until the end of the TA, on the following:

- Participate in Joint Applications Discussion sessions:
- · Provide guidelines, and best practices for the MDM detail design document in order to confirm or identify implementation approach;
- Provide weekly scheduled knowledge transfer sessions to CBSA application support team;
- Mentor CBSA staff on MDM and Data Stewardship deliverables to enable the CBSA to provide on-going support and maintenance
- Develop industry best practices for solution implementation, integration, and operation in production;
- Perform defect analysis and create new requirements as required;
- Review, modify and update service or solution design, as necessary;
- · Provide guidelines, standards and best practices for the integration with IBM Integration Bus (IIB) Enterprise Service Bus (ESB);
- Provide guidelines, standards and best practices for the deployment of Application code, including customizations.
- Provide guidance to package a fixed or enhanced solution for redeployment;
- Provide guidance to configure BPM/Data Stewardship for a development workstation environment;
- Provide guidelines, standards and best practices for the install, configuration, development and testing of Data Stewardship in all CBSA environments:
- Develop, integrate and test MDM components working with an approved interchange data format.
- Provide guidance to the project manager for HR planning.
- Design and implement system integration components to integrate the IBM InfoSphere MDM server solution with CBSA business systems and third
  party reference data sources;
- Provide guidelines, standards and best practices for the deployment on new high end infrastructure Research and Development Lab(RDL).

#### Deliverables

The Contractor shall deliver the following:

- Define and review System Use Cases (SUCs) including but not limited to: MDM Un-collapse process, Split process and validation process by April 15, 2019;
- Create MDM processes and services including but not limited to: Un-collapse and Split by September 31, 2019;
- Create Data Steward Tasks and new flows, including development of new and changes to the Data Stewardship User Interface, to maintain master record and Update/Refresh reference data for commercial parties by December. 30, 2019;
- Review and update Critical Design Review (CDR) documentation including but not limited to: System requirements specifications, Architecture and design specification(ADS)-part 3, 4 and 5, ADS Annex A, System-Requirement Traceability Matrix, and Release notes for Split and commercial DSW by
- Review and comment on CBSA for BPM and Data Stewardship non-functional requirements by September 15, 2018;
- Document MDM Commercial Stewardship Operational Manual; and
- Resolve assigned defects within the user acceptance-testing phase from October 1, 2019 to January 31 2020.

All deliverables must be provided in conformance with CBSA's standard desktop operating software, which is Microsoft Office Suite (including Word, Excel, Visio and PowerPoint) and Archimate in English.

All deliverables must be provided in a manner that permits integration with CBSA's technical and operational environment as specified by the Project Authority. All deliverables must be in the format of or compatible with the (SLMF) Service Life Cycle Management Framework.

All deliverables must be provided to the Project Authority for their review and acceptance. Should there be problems or issues with the deliverables being presented, the Project Authority will notify the resource of the items that must be modified within five (5) business days of receipt of the deliverable.

#### Technical Environment

As defined in Section 12 of the contract number 47060-152116/002/EL.

Constraints

Travaux publics et Services gouvernementaux Caparte

# TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

At no time and in no way is CBSA data to be removed from CBSA sites, nor will access to or from the Contractor's IT systems through the use of a session or ling (e.g. VPN) be permitted. The contractor must comply with CBSA internal security policies, directives, standards, and guidelines at all times during the contract.

The CBSA's working hours are between 07:00 to 18:00 Monday through Friday, except for Statutory Holidays where Government Offices are closed. These are core hours and are not representative of the duration of a Contractor's work day.

Language

The proposed Resource will be required to perform the work in English. Every individual proposed in its bid will be fluent in English. The individual proposed must be able to communicate orally and in writing in English without any assistance and with minimal errors.

Reporting Requirements

If a TA has been authorized, the resource must provide a weekly status report in MS Word electronically to the Project Authority outlining what work was undertaken during the reporting period, what work is still outstanding, and any issues or concerns that the resource wants to identify to the attention of the Project Authority. The status reports must also be supported by a monthly detailed time sheet mapped to deliverables, using standard template.

Location of Work

The work is expected to be performed on CBSA premises located at 333 North River Road, Ottawa, Ontario, K1A OL8 or an alternative CBSA location in the National Capital Region. There is no travel requirement under this Task Authorization.

Client Support

Period of Services / Période de service:

The contractor will be provided with a CBSA user ID, password, workstation and e-mail address and other materials (supporting documentation) as required. CBSA will provide each resource with a building access pass, network account when working in CBSA premises.

Initial Start Date / Date de début initiale :	August 16, 2017	Initial End Date / Date de fin initiale :	February 23, 2018
Extented End Date (See Reason for the Amendm	ent) / Date de fin prolon	gée (voir Raison pour la modification) :	February 23, 2019
Option To Extend Initial End Date / Option po	our prolonger la date de	fin initiale	
Travel Requirement(s) / Exigence(s) de voyage :	N/A		
Work Location(s) / Lieu(x) de travail :	355 North River	Road, Ottawa, Ontario K1A 0L8	

PART 2 (completed by the Contractor and/or the Technical/Project Authority) / PARTIE 2 (complété par le Contracteur et/ou le Responsable technique / Chargé du projet)

\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	/ Ressource(s) du Contracteur purces may provide services under this TA. / Nota : une fois appro	ouvée, seules l	es ressources sulvantes peuvent fo	ournir des services sous la présente AT.		
Name / Nom	Category / Catégorie	Level / Niveau	Linguistic Profile / Profile linguistique	Level of Security / Niveau de sécurité	PWGSC Security File No. / Nº du dossier de sécurité TPSGC	
	Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java development	3	English / Anglais	Secret	95866506	+

#### B. Estimated Cost/Coûtestimatif

Category / Catégorie	Level / Niveau	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Cost / Coût estimatif
+ grammer/Software Developer - Specialty				
in IBM Master Data Management (MDM) - Java development	3			\$252,800.00
AMENDMENT 001 - Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java development	3			\$418,700.00
AMENDMENT 002 - Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java development	3			\$39,500.00
	\$711,000.00			
Total E	\$0.00			
Taxe % applied / % de taxes appliquées	13.000 Applicable Taxes / Taxes applicables			\$92,430.00
\\	\$803,430.00			

### PART 3 - TA APPROVAL BY CANADA / PARTIE 3 - APPROBATION DE L'AT PAR LE CANADA

By signing this TA, the authorized client authority and/or the P certify(les) that the content of this TA is in accordance with the		En apposant sa signature sur l'AT, le client autorisé et/ou l'autorité contractante de TPSGC atteste(nt) que le contenu de cette AT est conforme aux conditions du contrat.			
The client's authorization limit is \$300,000.00 . When the valu (including GST/HST) is in excess of this limit, the TA must be si forwarded to the PWGSC Contracting Authority for authorizati	gned by the authorized client and	La limite d'autorisation du client est \$300,000.00 (incluant la TPS/TVH) dépasse cette limite, l'AT d l'autorité contractante de TPSGC pour autorisati	oit être signée par le client autorisé et transmise à		
Erin Lapensee 17 Name of Authorized Client/Nom du client autorisé Date	7-Jan-19	Name of Contracting Authority / Nom de l'autorité contractante	Date		
Trin Lapensee Signature		Signature Signature Julie	Digitally signed by Villeneuve, Juli 3 Date: 2019.01.18 10:28:07 -05'00'		

PART 4 - CONTRACTOR SIGNATURE / PARTIE 4 - SIGNATURE DU CONTRACTEUR

Mail	Sundander	Account Execution
Name and Title of individual authorized to sign on behalf of the Contractor / Nom et titre	for / marks Collision	
Date	Date	Date
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Traveux publics et Services gouvernementaux Ganada

PART 1 (completed by the Technical/Project Ar	uthority) / PART	E 1 (complété par	le Responsable technique / Chargé	du projet)					
A. General Information / Informations générales									
Contract Number / Numéro du contrat : 47060-152116/002/EL									
Contractor Name / Nom du Contracteur : Donna Conna Inc.									
Task Authorization (TA) No. / № de l'autorisation de tâches (AT) :									
2018000634	1000337353	1	92040060/2001/16100	Feb 11, 2019	Feb 15, 2019				
B. For Amendments Only/Aux	B. For Amendments Only / Aux fins de modification seulement								
Amendment No. / Nº de la modificat	tion: 3	***************************************							
Reason for the Amendment / Raison	n pour la modifica	ation :							
Amendment #3 is raised for the following:  1) Extend end date from February 23, 2019 to February 23, 2020;  2) Add days total estimated level of effort;   3)Increase total cost from \$711,000.00 to \$1,157,350.00 (All applicable taxes extra).									
C. TA Requirements / Exigence	s relatives à l'A	I							
Required Resource(s) / Ressource(s)	requise(s)								
Category / Catégorie	Category / Catégorie  Level / Niveau d'effort estimatif (jours)  Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)  Estimated Level of Effort (days) / Niveau Linguistic Profile   Required Level(s) of Security / Niveau(x) de sécurité requis								
Programmer/Software Developer - S Master Data Management (MDM) - Java		3		English / Anglais	Secret	1			
Statement of Work (tasks, deliverable	es, reports, etc.)	/ Énoncé des tr	avaux (tāches, livrables,	rapports, etc.)					
See Attached Annex A - Statement of	of Work					***************************************			
Period of Services / Période de ser	vice:								
Initial Start Date / Date de début initi	iale: Aug	gust 16, 2017	Initial End Dat	te / Date de fin initiale :	February 23, 2018				
Extented End Date (See Reason for the	he Amendment) /	/ Date de fin pr	olongée (voir Raison po	our la modification) :	February 23, 2020				
Option To Extend Initial End Date	e / Option pour p	rolonger la dat	e de fin initiale						
Travel Requirement(s) / Exigence(s) de voyage : N/A									
Work Location(s) / Lieu(x) de travail :		355 North I	River Road, Ottawa, Ont	tario K1A OL8					
PART 2 (completed by the Contractor and/or the Technical/Project Authority ) / PARTIE 2 (complété par le Contracteur et/ou le Responsable technique / Chargé du projet)									
A. Contractor Resource(s) / Ressource(s) du Contracteur  Note: once approved, only the following resources may provide services under this TA. / Nota: une fois approuvée, seules les ressources sulvantes peuvent fournir des services sous la présente AT.									

Name / Nom	Category / Catégorie	Level / Niveau	Linguistic Profile / Profile linguistique	Level of Security / Niveau de sécurité	PWGSC Security File No. / Nº du dossier de sécurité TPSGC	
	Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java development	3	English / Anglais	Secret	95866506	+

Level / Niveau	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Cost / Coût estimatif			
3			\$252,800.00			
3			\$418,700.00			
3			\$39,500.00			
3			\$446,350.00	V		
Estimated Cost / Coût estimatif						
Total Estimated Travel and Living Cost / Coût total estimatif de voyage et de vie						
13.000	\$150,455.50					
	Total Estima	ated Cost / Coût total estimatif	\$1,307,805.50			
	Niveau  3  3  3  Estimated Trav	Niveau journalier  3  3  3  3  Estimated Travel and Living Cost / Coût tota  13.000 Applic	Level / Niveau Per Diem Rate / Taux journalier (days) / Niveau d'effort estimatif (jours)  3  3  Estimated Cost / Coût estimatif  Estimated Travel and Living Cost / Coût total estimatif de voyage et de vie  13.000  Applicable Taxes / Taxes applicables	Section   Per Diem Rate / Taux journalier   (days) / Niveau d'effort estimatif (jours)   Section   Secti		

## PART 3 - TA APPROVAL BY CANADA / PARTIE 3 - APPROBATION DE L'AT PAR LE CANADA

By signing this TA, the authorized client authority and/o certify(les) that the content of this TA is in accordance w		En apposant sa signature sur l'AT, le client autorisé et/ou l'autorité contractante de TPSGC atteste(nt) que le contenu de cette AT est conforme aux conditions du contrat.				
The client's authorization limit is \$300,000.00 . When th (including GST/HST) is in excess of this limit, the TA mus forwarded to the PWGSC Contracting Authority for auth	t be signed by the authorized client and		0 . Lorsque la valeur de l'AT et ses modifications doit être signée par le client autorisé et transmise à cion.			
Name of Authorized Client / Nom du client autorisé PENWARDEN Bighally dignel by POWARDER ACREST Bickward only, were con and, we-FERSONHEL, were complement of the Control o	Date	Name of Contracting Authority / Nom de l'autorité contractante  Villeneuve, Julie	Date Digitally signed by Villeneuve,  J—Julie 3			
Signature		Signature ,	Date: 2019.02.13 15:59:43 -05'00'			



PART 4 - CONTRACTOR SIGNATURE / PARTIE 4 - SIGNATURE DU CONTRACTEUR

MARK COLOHAM	M. Coll	feb12,2019
Name and Title of individual authorized to sign on behalf of the Contractor / Nom et titre de la personne autorisée à signer au nom de l'entrepreneur	Signature	Date

# STATEMENT OF WORK ANNEX A

### Title

Canada Border Services Agency requires one (1) Programmer/Software Developer – Level 3- Specialty in IBM Master Data Management (MDM) - Java development.

## **Background**

The Canada Border Services Agency (CBSA) is undertaking an ambitious agenda of change in support of various Beyond the Border initiatives and Border modernization efforts. The Information, Science and Technology Branch (ISTB) support these efforts with oversight and alignment of major capital projects and the associated information technology solutions. Traditional IT functions have been augmented with program directorates that drive business transformation efforts and alignment of business solutions in portfolios for Travelers, Commercial, Common and Corporate projects.

To advance the planning, development and implementation of the Agency's transformation agenda, ISTB is implementing an enterprise approach to the management of its portfolio of systems, projects and services.

In support of the above, the Common Services Portfolio Directorate (CSPD) has undertaken the Master Data Management Service (MDMS), to put in place an Enterprise Building Blocks that can be leveraged by other initiatives including the Entry/Exit (E/E), Dynamic Risking, CAED, eManifest stabilization, CARM and GPF projects. The delivery of the Entry/Exit project is dependent on successful delivery of the foundational components found in MDMS.

### Objective

To acquire professional services for one Application/Software Developer Level 3 to perform the tasks and deliverables below.

#### Tasks and Deliverables

The Contractor must provide the professional services to perform the following tasks and deliver the following project deliverables, first in draft format, to be followed by a final product incorporating comments of the CSPD project manager (or their delegates).

#### **Tasks**

To provide CBSA with technical expertise and guidance and development support, ongoing until the end of the TA, on the following:

The Contractor must perform the following tasks:

- Develop and integrate technical frameworks and strategies, in order to meet the business and application requirements for the:
  - MDM initial load for Dynamic Risking;
  - MDM development tasks for CERS;
  - MDM development tasks for CARM;
- Implement and support MDM maintenance batch processes;
- Follow the CBSA project development life cycle with the Identity Management team in engineering a cleansing/standardization solution based on non-functional requirements (e.g. reliability,
- Provide analysis to define system functionality using the Unified Modeling Language (UML);
- Lead and facilitate Joint Application Architecture and Design sessions;
- Develop code based upon design and requirements documents for the Identity Management team:
  - for MDM maintenance batch scripts;
  - for the integration of Initial Load processes with CBSA automation tools;
- Support Quality Assurance activities;
  - 1. Fixing functional defects;
- Executing and monitoring Initial Load Jobs across all CBSA STAR environment;
- Monitor the need for design changes as the MDMS & Entry Exit project progresses;
- Define assumptions and constraints of architecture with regard to physical structure and data collection;
- Develop post-implementation plan for monitoring/tracking design stability;
- Perform and coordinate impact analysis of design and technology changes for any new initiative;
- Produce SLMF documentation for design and component development;
- Participate in the reviews for design, coding, detailed level design and system use cases;
- Provide weekly scheduled knowledge transfer sessions to CBSA application support team.

#### **Deliverables**

The Contractor shall deliver the following:

- Critical Design Review (CDR) documentation including the Architecture Design and Specification (ADS) documents. To be delivered in a Word format following the SLMF template, by September 30, 2019;
- Interface Control Documentation (ICD) and Web Service Definition Language (WSDL) and XML
   Schema Definition (XSD) schema, by November 30, 2019;
- Documented Industry best practices and guidance, ongoing until the end of the contract;
- Develop and support MDM maintenance batch scripts for CAED release 898 (December 2019);
- Bi-Weekly Status Report outlining the Identification of any issues or concerns, ongoing until the end of the contract;

 Perform scheduled knowledge transfer sessions to CBSA application support team to enable and enhance support of MDM, ongoing until the end of the contract;

All deliverables must be provided in conformance with CBSA's standard desktop operating software which is Microsoft Office Suite (including Word, Excel, Visio and PowerPoint) and Archimate in English.

All deliverables must be provided in a manner that permits integration with CBSA's technical and operational environment as specified by the Project Authority. All deliverables must be in the format of or compatible with the (SLMF) Service Life Cycle Management Framework.

All deliverables must be provided to the Project Authority for their review and acceptance. Should there be problems or issues with the deliverables being presented, the Project Authority will notify the resource of the items that must be modified within five (5) business days of receipt of the deliverable.

#### **Technical Environment**

As defined in Section 12 of the contract number 47060-152116/002/EL.

#### Constraints

At no time and in no way is CBSA data to be removed from CBSA sites, nor will access to or from the Contractor's IT systems through the use of a session or link (e.g. VPN) be permitted. The contractor must comply with CBSA internal security policies, directives, standards, and guidelines at all times during the contract.

The CBSA's working hours are between 07:00 to 18:00 Monday through Friday, except for Statutory Holidays where Government Offices are closed. These are core hours and are not representative of the duration of a Contractor's work day.

### Language

The proposed Resource will be required to perform the work in English. Every individual proposed in its bid will be fluent in English. The individual proposed must be able to communicate orally and in writing in English without any assistance and with minimal errors.

### **Reporting Requirements**

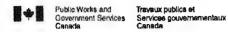
If a TA has been authorized, the resource must provide a weekly status report in MS Word electronically to the Project Authority outlining what work was undertaken during the reporting period, what work is still outstanding, and any issues or concerns that the resource wants to identify to the attention of the Project Authority. The status reports must also be supported by a monthly detailed time sheet mapped to deliverables, using standard template.

### Location of Work

The work is expected to be performed on CBSA premises located at 333 North River Road, Ottawa, Ontario, K1A 0L8 or an alternative CBSA location in the National Capital Region. There is no travel requirement under this Task Authorization.

## **Client Support**

The contractor will be provided with a CBSA user ID, password, workstation and e-mail address and other materials (supporting documentation) as required. CBSA will provide each resource with a building access pass, network account when working in CBSA premises.



1967. aprecia o se inchestros i Albaro.	ART	E Terrebasian	(Auggressella technologia / Charge	dis projet)				
A. General Information / Informations	généra	les						
Contract Number / Numéro du contrat : 47060-152116/002/EL								
Contractor Name / Nom du Contracteur : Do	nna Con	na Inc.						
2018000634 1000337	***************************************				August 17, 2017			
B. For Amendments Only / Aux fins de	modifi	cation seule	ment					
Amendment No. / Nº de la modification :	<del></del>			<del>galaccia i del del constante del cons</del> tante del constante				
Reason for the Amendment / Raison pour la	modifica	ition :						
						***************************************		
C. TA Requirements / Exigences relative		<u>\T</u>						
Required Resource(s) / Ressource(s) requise(s)  Category / Catégorie  Level / Niveau  d'effort estimatif (Jours)  Level / Niveau  d'effort estimatif (Jours)  Estimated Level of Effort (days) / Niveau  d'effort estimatif (Jours)  Linguistique  Required Level(s) of Security / Niveau(x) de sécurité requis						\$1111111111111111111111111111111111111		
Programmer/Software Developer - Specialty in IBM Master 3 English / Anglais Secret  Data Management (MDM) - Java development								
Statement of Work (tasks, deliverables, repo		/ Énoncé des tr	avaux (tâches, livrables	s, rapports	s, etc.)			
Title								
Programmer / Software Developer – Level 3	- MDM-	- Java developr	ment (BPM / Data Stewa	ardship)				
Background								
The Canada Border Services Agency (CBSA) in Border modernization efforts. The Informatic capital projects and the associated informatic drive business transformation efforts and ali	on, Scien ion techi ignment	nce and Techno nology solution of business sol	ology Branch (ISTB) sup ns. Traditional IT function lutions in portfolios for	port these ons have b Travelers,	e efforts with over been augmented Commercial, Cor	rsight a with pr mmon a	nd alignment of major rogram directorates that and Corporate projects.	
To advance the planning, development and the management of its portfolio of systems,			: Agency's transformati	on agenda	a, ISTB is impleme	enting a	in enterprise approach t	.о
In support of the above, the Common Service place an Enterprise Building Blocks that can of the Entry/Exit project is dependent on such	be lever	aged by other	initiatives including the	e Entry/Ex	it (E/E), BioMetric	ment Se s and U	ervice (MDMS), to put in PASS projects. The deliv	ery
Objective								
To acquire professional services for one App	olication/	/Software Deve	eloper Level 3 to perfor	m the task	cs and deliverable	s belov	٧.	
Tasks and Deliverables		·		······································	<b>w</b>		·	

The Contractor must provide the professional services to perform the following tasks and deliver the following project deliverables, first in draft format, to be followed by a final product incorporating comments of the CSPD project manager (or their delegates).

#### Tasks

 $_{
m To}$  provide CBSA with technical expertise and guidance and development support, ongoing until the end of the TA, on the following:

- Participate in Joint Applications Discussion sessions;
- Provide guidelines, and best practices for the MDM detail design document in order to confirm or identify implementation approach;
- Provide weekly scheduled knowledge transfer sessions to CBSA application support team;
- Develop industry best practices for solution implementation, integration, and operation in production;
- · Perform defect analysis and create new requirements as required;
- · Review, modify and update service or solution design, as necessary;
- Provide guidelines, standards and best practices for the integration with IBM Integration Bus (IIB) Enterprise Service Bus (ESB);
- Provide quidelines, standards and best practices for the deployment of Application code, including customizations.
- Provide guidance to package a fixed or enhanced solution for redeployment;
- Provide guidance to configure BPM/Data Stewardship for a development workstation environment;
- Provide guidelines, standards and best practices for the install, configuration and testing of Data Stewardship in all CBSA environments;
- Develop, integrate and test MDM components working with an approved interchange data format.
- Provide guidance to the project manager for HR planning.
- Design and implement system integration components to integrate the IBM InfoSphere MDM server solution with CBSA business systems and third party reference data sources;
- Provide guidelines, standards and best practices for the deployment on new high end infrastructure Research and Development Lab(RDL).

#### Deliverables

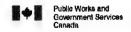
The Contractor shall deliver the following:

- Review and update MDM and BPM/Data Stewardship high level design and detail design documents within 2 weeks from start date of TA;
- Design system components within 3 weeks from start date of TA;
- Define and review System Use Cases (SUCs) including but not limited to: MDM mapping transformation rules, Search, Collapse process, Uncollapse process, Split process, Master record maintain process, and Data validation process by Sept. 29, 2017;
- Create MDM processes including but not limited to: Search, Collapse, Uncollapse, Split, Maintain master record, Update, Data quality assessment, and Update reference data by Sept. 29, 2017;
- · Create tasks for Data Steward to maintain master record and Update/Refresh reference data by Sept. 29, 2017;
- Develop, integrate and test MDM components working with an approved interchange data format. February 23, 2018;
- Provide guidelines, standards and best practices for the deployment of Data Stewardship Business Process Manager (BPM) to eManifest YT environment by Sept. 29, 2017;
- Provide guidelines, standards and best practices for the deployment of Data Stewardship Business Process Manager (BPM) to project's development (YT) environments by Sept. 29, 2017;
- Design and Implement data cleansing for Data Stewardship by October 31, 2017;
- Create MDM mapping transformation rules by October 31, 2017;
- Create MDM business issues escalation rules by October 31, 2017;
- Review and update MDM data mapping and MDM business functional requirement by October 31, 2017;
- Review and update Critical Design Review (CDR) documentation including but not limited to: System requirements specifications, Architecture and design specification (ADS)-part 3, 4 and 5, ADS Annex A, System-Requirement Traceability Matrix, and Release notes by October 31, 2017;
- Review and comment on CBSA non-functional requirements by October 31, 2017;
- Document the processes and steps needed to build, administer and support all tests, in development and production environments February 23, 2018:
- Document MDM Stewardship Operational Manual; and
- Resolve assigned defects within the user acceptance testing phase from February 1 to February 23, 2018.

All deliverables must be provided in conformance with CBSA's standard desktop operating software which is Microsoft Office Suite (including Word, Excel, Visio and PowerPoint) and Archimate in English.

All deliverables must be provided in a manner that permits integration with CBSA's technical and operational environment as specified by the Project Authority. All deliverables must be in the format of or compatible with the (SLMF) Service Life Cycle Management Framework.

All deliverables must be provided to the Project Authority for their review and acceptance. Should there be problems or issues with the deliverables



being presented, the Project Authority will notify the res deliverable.	urce of the items that must be modifie	ed within five (5) business days	of receipt of the			
Technical Environment			***************************************			
As defined in Section 12 of the contract number 47060-152116/002/EL.						
Constraints			***************************************			
At no time and in no way is CBSA data to be removed from CBSA sites, nor will access to or from the Contractor's IT systems through the use of a session or ling (e.g. VPN) be permitted. The contractor must comply with CBSA internal security policies, directives, standards, and guidelines at all times during the contract.						
The CBSA's working hours are between 07:00 to 18:00 M These are core hours and are not representative of the d		tory Holidays where Governme	nt Offices are closed.			
Language						
The proposed Resource will be required to perform the proposed must be able to communicate orally and in wi	ork in English. Every individual propo ting in English without any assistance	sed in its bid will be fluent in En and with minimal errors.	glish. The individual			
Reporting Requirements						
If a TA has been authorized, the resource must provide a weekly status report in MS Word electronically to the Project Authority outlining what work was undertaken during the reporting period, what work is still outstanding, and any issues or concerns that the resource wants to identify to the attention of the Project Authority. The status reports must also be supported by a monthly detailed time sheet mapped to deliverables, using standard template.						
Location of Work						
The work is expected to be performed on CBSA premises located at 333 North River Road, Ottawa, Ontario, K1A 0L8 or an alternative CBSA location in the National Capital Region. There is no travel requirement under this Task Authorization.						
Client Support The contractor will be provided with a CBSA user ID, password, workstation and e-mail address and other materials (supporting documentation) as required. CBSA will provide each resource with a building access pass, network account when working in CBSA premises.						
Period of Services / Période de service:						
Initial Start Date / Date de début initiale : Date o	TA Award Initial End Date / I	Date de fin initiale :	February 23, 2018			
Extented End Date (See Reason for the Amendment) / Date de fin prolongée (voir Raison pour la modification) :						
Option To Extend Initial End Date / Option pour prolonger la date de fin initiale						
Travel Requirement(s) / Exigence(s) de voyage :	N/A					
Work Location(s) / Lieu(x) de travail : 355 North River Road, Ottawa, Ontario K1A 0L8						
PART 2 completed by the Company and/or the Technical Project Audienty) / PARTIE 2 complete by K Contact between the Company of Chapter and						
A. Contractor Resource(s) / Ressource(s) du Contracteur						

Note: once approved, only the following resources may provide services under this TA. / Nota: une fois approuvée, seules les ressources sulvantes peuvent fournir des services sous la présente AT.

Name / Nom	Category / Catégorie		Linguistic Profile / Profile linguistique	Level of Security / Niveau de sécurité	PWGSC Security File No. / Nº du dossier de sécurité TPSGC	
Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java development		3	English / Anglals	Secret	95866506	

s. Estimated Cost / Coût estimatif				T
Category / Catégorie	Level / Niveau	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Cost / Coût estimatif
rammer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java development	3			\$252,800.00
^	\$252,800.00			
Total I	\$0.00			
Taxe % applied / % de taxes appliquées	13.000	Appli	\$32,864.00	
	\$285,664.00			

## PART 3 TA APPROVAL BY CANADA / PARTIE 3 APPROBATION DE L'AT PAR LE CANADA

By signing this TA, the authorized client authority and/or the PWGSC Contracting Authority certify(ies) that the content of this TA is in accordance with the conditions of the Contract.	En apposant sa signature sur l'AT, le client autorisé et/ou l'autorité contractante de TPSGC atteste(nt) que le contenu de cette AT est conforme aux conditions du contrat.			
The client's authorization limit is \$300,000.00. When the value of a TA and its amendments (including GST/HST) is in excess of this limit, the TA must be signed by the authorized client and forwarded to the PWGSC Contracting Authority for authorization.  Robert Penulardes Name of Authorized Client / Nom du client autorisé  Date	La limite d'autorisation du client est \$300,000.00 (incluant la TPS/TVH) dépasse cette limite, l'AT de l'autorité contractante de TPSGC pour autorisation de l'autorité contractante de TPSGC pour autorisation de l'autorité contractante de l'autorité contractante	oit être signée par le client autorisé et transmise		
Signature	Signature	00000000000000000000000000000000000000		

PART 4 - CONTRACTOR SIGNATURE / PARTIE 4 - SIGN	ATUREOU CONTRAC	EUR / LE TILLE TO THE STATE OF
MARK GLOHAM  Name and Title of individual authorized to sign on behalf of the Contractor / Nom et titre	In Coll	68/16/2017 Date
de la personne autorisée à signer au nom de l'entrepreneur		

Travnux publics of Services gouvernementaux Canada

PART 1 (completed by the Technical/Project Authority) / PART	IE 1 (complété pa	r le Responsable technique / Chargo	f du projet)				
A. General Information / Informations générales							
Contract Number / Numéro du contrat ; 47060-152116/002/EL							
Contractor Name / Nom du Contracteur : Donna Co	nna Inc.						
Task Authorization (TA) No. / N° Commitment No. / N° de Financial Coding / Code Date of Issuance / Date Response required by / de l'autorisation de tâches (AT) : l'engagement : financier : d'émission ; Réponse requise par :							
2018000635 1000337354	192040060/2001/16100						
B. For Amendments Only / Aux fins de modif	ication seule	ement					
Amendment No. / Nº de la modification : 1				*			
Reason for the Amendment / Raison pour la modific	ation :						
The MDM project delivery timelines have changed a be done until all contentment is delivered.	nd new requir	ements have been pres	ented which requires addit	ional MDM developn	nent work to		
C. TA Requirements / Exigences relatives à l'A	AI.		*				
Required Resource(s) / Ressource(s) requise(s)							
Category / Catégorie	Level / Niveat	Estimated Level of Jeffort (days) / Niveau d'effort estimatif (Jours)	Linguistic Profile / Profile linguistique	Required Level(s) of Niveau(x) de sécurit			
Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java development	3		English / Anglals	Secret			
Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java development	Master 3 English / Anglais Secret		Secret				
Statement of Work (tasks, deliverables, reports, etc.)	/Énoncé des t	ravaux (tāches, livrables	, rapports, etc.)				
Programmer / Software Developer – Level 3 - MDM – Java development  Background The Canada Border Services Agency (CBSA) is undertaking an ambitious agenda of change in support of various Beyond the Border initiatives and Border modernization efforts. The Information, Science and Technology Branch (ISTB) support these efforts with oversight and alignment of major capital projects and the associated information technology solutions. Traditional IT functions have been augmented with program directorates that drive business transformation efforts and alignment of business solutions in portfolios for Travelers, Commercial, Common and Corporate projects.  To advance the planning, development and implementation of the Agency's transformation agenda, ISTB is implementing an enterprise approach to							
the management of its portfolio of systems, projects in support of the above, the Common Services Portfo place an Enterprise Building Blocks that can be lever of the Entry/Exit project is dependent on successful of	olio Directorati aged by other	initiatives including the	Entry/Exit (E/E), BloMetrics	ment Service (MDMS) s and UPASS projects.	, to put in The delivery		
Objective To acquire professional services for one Application/ Tasks and Deliverables					draft format		
The Contractor must provide the professional service	es to perform t	ne rollowing tasks and t	seriver the rollowing projec	r denverables, jirst in	Page 1 of 4		

to be followed by a final product incorporating comments of the CSPD project manager (or their delegates).

#### Tasks

To provide CBSA with technical expertise and guidance and development support, ongoing until the end of the TA, on the following:

- Participate in Joint Applications Discussion sessions:
- Provide guidelines, and best practices for the MOM detail design document in order to confirm or identify implementation approach;
- · Provide weekly scheduled knowledge transfer sessions to CBSA application support team;
- Mentor CBSA staff on MDM and Data Stewardship deliverables to enable the CBSA to provide on-going support and maintenance
- Develop industry best practices for solution implementation, integration, and operation in production;
- · Perform defect analysis and create new requirements as regulred;
- · Review, modify and update service or solution design, as necessary;
- Provide guidelines, standards and best practices for the integration with IBM Integration Bus (IIB) Enterprise Service Bus (ESB);
- Provide guidelines, standards and best practices for the deployment of Application code, including customizations,
- Provide guidance to package a fixed or enhanced solution for redeployment;
- Develop, integrate and test MDM components working with an approved interchange data format.
- Provide guidance to the project manager for HR planning.
- Design and implement system integration components to integrate the IBM InfoSphere MDM server solution with CBSA business systems and third
  party reference data sources;
- Provide guidelines, standards and best practices for the deployment on new high end infrastructure Research and Development Lab(RDL).
  Deliverables

The Contractor shall deliver the following:

- Define and review System Use Cases (SUCs) including but not limited to: MDM mapping transformation rules, Search, Collapse process, Uncollapse
  process, Split process, Master record maintain process, and Data validation process by February 15, 2018;
- · Create MDM processes and services including but not limited to: Search, Collapse, Uncollapse, Split, Maintain master record, Update, Data quality assessment, and Update reference data by May 31, 2018;
- Integrate the code bases for Commercial MDM and Traveller MDM by May 31, 2018
- Develop, Integrate and test MOM components working with an approved interchange data format by March 31, 2018;
- Review and update Critical Design Review (CDR) documentation including but not limited to: System requirements specifications, Architecture and design specification (ADS)-part 3, 4 and 5, ADS Annex A, System-Requirement Traceability Matrix, and Release notes by February 15, 2018;
- Review and comment on CBSA for MDM non-functional requirements by February 15, 2018;
- Document the processes and steps needed to build, administer and support all tests, in development and production environments March 31, 2018;
   and
- Resolve assigned defects within the user acceptance testing phase from June 1 to September 30, 2018.

All deliverables must be provided in conformance with CBSA's standard desktop operating software which is Microsoft Office Suite (including Word, Excel, Visio and PowerPoint) and Archimate in English.

All deliverables must be provided in a manner that permits integration with CBSA's technical and operational environment as specified by the Project Authority. All deliverables must be in the format of or compatible with the (SLMF) Service Life Cycle Management Framework.

All deliverables must be provided to the Project Authority for their review and acceptance. Should there be problems or issues with the deliverables being presented, the Project Authority will notify the resource of the items that must be modified within five (5) business days of receipt of the deliverable.

Technical Environment

As defined in Section 12 of the contract number 47060-152116/002/EL.

Constraints

At no time and in no way is CBSA data to be removed from CBSA sites; nor will access to or from the Contractor's IT systems through the use of a session or ling (e.g. VPN) be permitted. The contractor must comply with CBSA internal security policies, directives, standards, and guidelines at all times during the contract.

The CBSA's working hours are between 07:00 to 18:00 Monday through Friday, except for Statutory Holidays where Government Offices are closed. These are core hours and are not representative of the duration of a Contractor's work day. Language

The proposed Resource will be required to perform the work in English. Every Individual proposed in its bid will be fluent in English. The Individual proposed must be able to communicate orally and in writing in English without any assistance and with minimal errors.

Reporting Requirements

If a TA has been authorized, the resource must provide a weekly status report in MS Word electronically to the Project Authority outlining what work was undertaken during the reporting period, what work is still outstanding, and any issues or concerns that the resource wants to identify to the attention of the Project Authority. The status reports must also be supported by a monthly detailed time sheet mapped to deliverables, using standard

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emplate.	·	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s		anne en en en en en en en en en en en en	ta farm tac i i i i i i i i i i i i i i i i i i i	alandra at a de la companion de la companion de la companion de la companion de la companion de la companion d	aldiskulgarishliridi ilisini dan eglarovyedi ilasamala vida veryedere ekassasa	
ocation of Work								
The work is expected to be per he National Capital Region. Th					arlo, KTA OL8 or a	ın alternati	ve CBSA location i	n
Ellent Support The contractor will be provided equired. CBSA will provide eac							ocumentation) as	
eriod of Services / Période d	e service:							
nitial Start Date / Date de débu	it initiale : Da	te of TA Award	Initia	l End Date / Date de f	în initiale :	Feb	ruary 28, 2018	
Option To Extend Initial End	d Date / Option pour	prolonger la date d	le fin initial	e e	•	€	And the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	Mathematical
Optional End Date	(s) / Date(s) de fin op	tionnelle(s)			Status / Statu	<u> </u>	**************************************	
	Nov 1, 2018			<b>⊚</b> In	effect / en vigue	ur :		(A)
ravel Requirement(s) / Exigenc	te(s) de voyage :	N/A				4.		تبدؤ ا
/ork Location(s) / Lieu(x) de tra	ivall:	355 North Rive	er Road, Ot	tawa, Ontario K1A 0L8	<b>1</b>			
ART 2 (completed by the Contractor a	nd/or the Technical/Project Au	horliy) / PARTIE	<b>2</b> (completé pa	r le Contracteur et/ou le Respon	sable technique / Chargi	du projet)		
. Contractor Resource(s)	Ressource(s) du C	ontracteur						Šúpi
Name / Nom	Category /		Level / Niveau	Linguistic Profile / Profile linguistique	Level of Securit de sécurité		PWGSC Security File No. / Nº du dossier de sécurité TPSGC	
	grammer/Softw Specialty in		3	English / Anglals	Secret		95866596	

Name and Title of individual authorized to sign on behalf of the Contractor / Nom et titre

de la personne autorisce à signer au nom de l'entrepreneur

# TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

Category / Catégorie	Level / Niveau	Per Dlem Rate / Taux Journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Cost / Coût estimatif
in IBM Master Data Management (MDM) - Java development	<sup>'</sup> 3			\$252,800,00
Programmer/Software Developer - Specialty In IBM Master Data Management (MDM) - Java development	3			\$339,700.00
	mago mi anama santa santa di agrado anto anto anto anto anto anto anto ant		Estimated Cost / Coût estimati	\$592,500.00
Total E	stimated Trav	el and Living Cost / Coût tot	al estimatif de voyage et de vie	\$0,00
Taxe % applied / % de taxes appliquées	13,000	Appll	cable Taxes / Taxes applicables	\$77,025.00
		Total Estim	ated Cost / Coût total estimati	\$669,525.00

## PART 3 - TA APPROVAL BY CANADA / PARTIE 3 - APPROBATION DE L'AT PAR LE CANADA

by signing this LA, the authorized cilent authority and/or the PWOSC Contracting Authority certify(les) that the content of this TA is in accordance with the conditions of the Contract.	En apposant sa signature sur FAI, le client autorisé et/ou l'autorité contractante de l'PSGC atteste(nt) que le contenu de cette AT est conforme aux conditions du contrat.
The client's authorization limit is \$300,000,00°, When the value of a TA and its amendments fincluding GST/HST) is in excess of this limit, the TA must be signed by the authorized client and forwarded to the PWGSC Contracting Authority for authorization.	La limite d'autorisation du client est \$300,000.00. Lorsque la valeur de l'AT et ses modifications (incluant la TPS/TVH) dépasse cette limite, l'AT doit être signée par le client autorisé et transmise à l'autorité contractante de TPSGC pour autorisation,
Name of Authorized Client Norm du client autorisé Date  Signature  Tenurardo  Signature	Name of Contracting Authority / Norm de Pautorité contractante  Signature  4 Janvier 2018  Date Signature
PART 4 - CONTRACTOR SIGNATURE / PARTIE 4 - SIGNA	ATURE DU CONTRACTEUR
MARK COLDHAM ACCOUNTE	LEC Mille Dec 20 2017

Signature

PART 1 (completed by the Technical Project Authority) / PARTIE 1 (complete par le Responsable technique / Charge du projet)

A. General Information / Informations géné	rales		••••••				**************************************
Contract Number / Numèro du contrat : 47060-15	2116/002/EL						***************************************
Contractor Name / Nom du Contracteur : Donna Co	inna Inc.		***************************************		••••••		************
Task Authorization (TA) No. / N° Commitment No. / N° de Financial Coding / Code Date of Issuance / Date Response required by the l'autorisation de tâches (AT) : l'engagement : financier : d'émission : Réponse requise par							
2018000635 1000337354	8000635 1000337354 192040060/2001/16100 Jul 17, 2018 Jul 19, 2018						
B. For Amendments Only / Aux fins de modi	fication seule	ement					200000000000000000000000000000000000000
Amendment No. / № de la modification : 2			***************************************		······································		
Reason for the Amendment / Raison pour la modifie	ation :		······		andre del construction de la con		
Add an additional days		***************************************	- <del></del>		***************************************		***************************************
			····				***************************************
C. TA Requirements / Exigences relatives à l'	AT				***************************************	-	***************************************
Required Resource(s) / Ressource(s) requise(s)							
Category / Catégorie	Level / Niveau	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Lingu	uistic Profile / Profile linguistique		ed Level(s) of Security / (x) de sécurité requis	***************************************
Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java Development	3		Ε	inglish / Anglais	Secret		+
Statement of Work (tasks, deliverables, reports, etc.)	/ Énoncé des t	ravaux (tāches, livrables	s, rappo	orts, etc.)			**************************************
Title							
Programmer / Software Developer – Level 3 - MDM	– Java developi	ment					
Background The Canada Border Services Agency (CBSA) is under Border modernization efforts. The Information, Sciencapital projects and the associated information tech drive business transformation efforts and alignment	nce and Techno nology solution	ology Branch (ISTB) supp ns, Traditional IT functio	port th	ese efforts with over ve been augmented	sight ar with pro	nd alignment of major ogram directorates that	
To advance the planning, development and implem the management of its portfolio of systems, projects		Agency's transformation	on age	nda, ISTB is impleme	nting a	n enterprise approach t	10
In support of the above, the Common Services Portf place an Enterprise Building Blocks that can be lever of the Entry/Exit project is dependent on successful	aged by other	initiatives including the	Entry/	/Exit (E/E), BioMetrics	nent Se and UP	rvice (MDMS), to put in PASS projects. The deliv	ery
Objective To acquire professional services for one Application. Tasks and Deliverables The Contractor must provide the professional servic to be followed by a final product incorporating com	es to perform t	he following tasks and o	deliver	the following projec			nat,

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# TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

#### lasks

To provide to CBSA, ongoing until the end of the TA, technical expertise and guidance on the following topics:

- Participate in Joint Applications Discussion sessions;
- Review and comment on service or solution design based on IBM best practices.
- Review and comment on MDM high level design (including ADS documents) based on IBM best practices.
- Develop System requirements, System Use Cases based on industry standard practices.
- Use industry standard guidelines, and best practices to develop MDM detail design documentation in order to confirm or identify implementation approach;
- · Review and comment on CBSA non-functional requirements
- Provide weekly scheduled knowledge transfer sessions to CBSA application support team;
- Use industry standard best practices for solution implementation, integration, and operation in production;
- Perform defect analysis based on business requirements for each project and create new programming logic to satisfy business requirement as
  required;
- Use industry standard guidelines, standards and best practices for the integration with IBM Integration Bus (IIB) Enterprise Service Bus (ESB);
- · Use industry standard guidelines, standards and best practices for the integration IBM InfoSphere Information Server (IIS) QualityStage and DataStage;
- · Provide guidance to package a fixed or enhanced solution for redeployment;
- Use industry standard guidelines, standards and best practices for the install, configuration and testing of IBM MDM products to all CBSA environments;
- Design and implement system integration components to integrate the IBM InfoSphere MDM server solution with CBSA business systems and third party reference data sources:
- Use industry standard guidelines, standards and best practices for the deployment of MDM on new high end infrastructure Research and Development Lab(RDL);
- Use industry standard guidelines, standards and best practices for the deployment of Application code, including customizations;
- Develop, integrate and test MDM components working with an approved interchange data format;
- Use industry standard guidelines, standards and best practices for the performance tuning, load balancing and optimization strategies for MDM Server
  environment;
- Provide guidance with the configuration of RDL for production sizing;
- · Provide guidance with the MDM security frameworks and integration with CBSA security policy and identity stores; and
- Provide guidance to the project manager with regards to work effort estimations for development and customization of IBM MDM COTS product.

  Deliverables

The Contractor shall deliver the following:

- Comments on service or solution design due within 2 weeks of start date of TA;
- · Comments on MDM high level design and detail design due within 2 weeks of start date of TA;
- · eManifest MDM database migration strategy due within 2 weeks of start date of TA;
- · Comments on CBSA non-functional requirements due within 2 weeks of start date of TA;
- System requirements, System Use Cases due by Sept. 29, 2017;
- IBM MDM server solution components including web service customizations and user interface customizations using Java technologies due by Sept. 29, 2017;
- Updated Critical Design Review (CDR) documentation due by October 31, 2017;
- Comments on the MDM Server components hardware sizing due by October 31, 2017;
- Comments on MDM data mapping and MDM business functional requirement due by October 31, 2017;
- MDM server solution component packaging and promotion strategy document due by October 31, 2017;
- Document detailing processes and steps needed to build, administer and support all tests, in development and production environments due by March 31, 2018; and
- · Resolve assigned defects within the user acceptance testing phase from February 1 to March 31 2018.

All deliverables must be provided in conformance with CBSA's standard desktop operating software which is Microsoft Office Suite (including Word, Excel, Visio and PowerPoint) and Archimate in English.

All deliverables must be provided in a manner that permits integration with CBSA's technical and operational environment as specified by the Project Authority. All deliverables must be in the format of or compatible with the (SLMF) Service Life Cycle Management Framework.

All deliverables must be provided to the Project Authority for their review and acceptance. Should there be problems or issues with the deliverables being presented, the Project Authority will notify the resource of the items that must be modified within five (5) business days of receipt of the deliverable.

Technical Environment

As defined in Section 12 of the contract number 47060-152116/002/EL.

#### Constraints

At no time and in no way is CBSA data to be removed from CBSA sites, nor will access to or from the Contractor's IT systems through the use of a session or ling (e.g. VPN) be permitted. The contractor must comply with CBSA internal security policies, directives, standards, and guidelines at all times during the contract.

The CBSA's working hours are between 07:00 to 18:00 Monday through Friday, except for Statutory Holidays where Government Offices are closed. These are core hours and are not representative of the duration of a Contractor's work day.

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Language					······································			
The proposed Resource will proposed must be able to co						lish. The individual	***************************************	
Reporting Requirements								
If a TA has been authorized, was undertaken during the attention of the Project Auth template.	reporting period, what wo	rk is still outstand	fing, and a	iny issues or concerns	that the resource wants	to Identify to the	۵	
Location of Work							***************************************	
The work is expected to be j the National Capital Region.					rio, KTA 0L8 or an altern	ative CBSA location in		
Client Support The contractor will be provide required, CBSA will provide						documentation) as		
   Period of Services / Périod	e de service:							
Initial Start Date / Date de dé	but initiale :		Initia	al End Date / Date de f	in initiale :	ov 1, 2018		
Extented End Date (See Reas	on for the Amendment) / [	Date de fin prolor	ngée (voir	Raison pour la modific	cation):			
Option To Extend Initial E	End Date / Option pour pro	olonger la date de	e fin initial	e	Borres		Soorway	
Travel Requirement(s) / Exige	ence(s) de voyage :	No travel requi	rements					
Work Location(s) / Lieu(x) de	travail :	355 North Rive	th River Road, Ottawa, Ontario K1A 0L8					
PART 2 (completed by the Contract	ocand/or the Tochnical/Project Author	v) / PARTIE 2	Ž (complété pi	ur la Contracteur at/ou la Réspon	sable technique / Chargé du projet)			
A. Contractor Resource(: Note once apprived, only the following re			ouvée, squies i	he idazonicaz anikbugea bannaug	fournit des services sous la presente :	k } .	***************************************	
Name / Nom	Category / Ca	tégorie	Level / Niveau		Level of Security / Nivea de sécurité	PWGSC Security  File No. / Nº du  dossier de  sécurité TPSGC		
	Programmer/Softwa Specialty in IBN Data Management Developm	M Master (MDM) - Java	3	English / Anglais	Secret	95866596	+	
B. Estimated Cost / Coût	estimatif							

Category / Catégorie	Level / Niveau	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Cost / Coût estimatif
+ prammer/Software Developer - Specialty In IBM Master Data Management (MDM) - Java Development	3			\$252,800.00
Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java Development	3			\$339,700.00
Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java Development	3			\$98,750.00 🗸
			Estimated Cost / Coût estimatif	\$691,250.00
Total E	stimated Trav	rel and Living Cost / Coût tot	al estimatif de voyage et de vie	\$0.00
Taxe % applied / % de taxes appliquées	13.000	Appli	cable Taxes / Taxes applicables	\$89,862.50
		Total Estim	ated Cost / Cout total estimatif	\$781,112.50

## PART 3 - TA APPROVAL BY CANADA / PARTIE 3 - APPROBATION DE L'AT PAR LE CANADA

By signing this FA, the authorized client authority and/or the PWGSC Contracting Authority		autorisé et/ou l'autorité contractante de TPSGC
certify less that the content of this TA is in accordance with the conditions of the Contract	atteste(nt) que le contenu de cette AT est c	conforme aux conditions du contrat.
The client's authorization limit is \$300,000.00. When the value of a TA and its amendments including GST/I(ST) is in excess of this limit, the TA must be signed by the authorized client and fopgarded to the PWGSC Contracting Authority for authorization,		100.00 : Lorsque la valeur de l'AT et ses modifications l'AT doit être signée par le client autorisé et transmise à irisation,
Cein Lapensée JUL 19 2018	Mansour, Silvana	Digitally signed by Mansour, Silvana Date: 2018.08.22 08:45:10 - 04'00'
Jame of Senhorized Client / Norm du client autorisé Date	Name of Contracting Authority / Nom de l'autorité contractante	Date
Signatur	Signature	

## PART 4 - CONTRACTOR SIGNATURE / PARTIE 4 - SIGNATURE DU CONTRACTEUR

MARK COUPHING	ACCOUNT EXECUTUE	nall	07/26/2018
Name and Title of Individual authorized to de la personne autorisée à Signer au nom d	sign on behalf of the Contractor / Nom et titre de l'entrepreneur	Signature	Date



/ PARTIE 1 Jenmelátá nacia Resnonsable technique / Chargé du projet)

A. General Information / Informations géné	***************************************						***************************************
	2116/002/EL		***************************************				***************************************
Contract Number / Numero du Contrat : 4700-1	2110/002/11		***************************************		***************************************		***************************************
Contractor Name / Nom du Contracteur : Donna C	onna Inc.					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	***************************************
, , ,							/
2018000635 1000337354		192040060/2001/16100 Oct 29, 2018 Nov 1, 2018					
B. For Amendments Only/Aux fins de modi	ficationseul	ement					***************************************
Amendment No. / Nº de la modification : 3					***************************************	<u> </u>	
Reason for the Amendment / Raíson pour la modif	cation :						
To extend the end date from November 1, 2018 to		)19 and update the SOW.					
			Ecocor <del>o</del>				
C. TA Requirements / Exigences relatives à l	'Δ <b>T</b>				······································		•
Required Resource(s) / Ressource(s) requise(s)							
Category / Catégorie	Level / Nivea	Estimated Level of Effort (days) / Niveau d'effort estimatif	Ling	uistic Profile / Profile linguistique	1 .	ed Level(s) of Security / (x) de sécurité requis	
		(jours)					
Programmer/Software Developer - Specialty in IBN Master Data Management (MDM) - Java Development	3			English / Anglais	Secret		+
Statement of Work (tasks, deliverables, reports, etc.	) / Énoncé des	travaux (tâches, livrables,	, rapp	orts, etc.)			
Title							
Programmer / Software Developer – Level 3 - MDN	I – Java develor	oment					
Background The Canada Border Services Agency (CBSA) is under Border modernization efforts. The Information, Sci capital projects and the associated information ted drive business transformation efforts and alignment.	ence and Techr hnology solutio	ology Branch (ISTB) supp ons. Traditional IT function	ort th	hese efforts with over ive been augmented v	sight an with pro	d alignment of major gram directorates that	
To advance the planning, development and impler the management of its portfolio of systems, project		e Agency's transformatio	n age	enda, ISTB is impleme	nting an	enterprise approach to	O
In support of the above, the Common Services Port place an Enterprise Building Blocks that can be leve of the Entry/Exit project is dependent on successful	raged by other	initiatives including the B	intry/	Exit (E/E), BioMetrics			
Objective To acquire professional services for one Application Tasks and Deliverables The Contractor must provide the professional servi to be followed by a final product incorporating cor	ces to perform	the following tasks and c	leliver	r the following project			nat,

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## TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

#### Tasks

To provide to CBSA, ongoing until the end of the TA, technical expertise and guidance on the following topics:

- Participate in Joint Applications Discussion sessions;
- Review and comment on service or solution design based on IBM best practices.
- Review and comment on MDM high level design (including ADS documents) based on IBM best practices.
- Develop System requirements, System Use Cases based on industry standard practices.
- Use industry standard guidelines, and best practices to develop MDM detail design documentation in order to confirm or identify implementation approach;
- Review and comment on CBSA non-functional requirements
- Provide weekly scheduled knowledge transfer sessions to CBSA application support team;
- Use industry standard best practices for solution implementation, integration, and operation in production;
- Perform defect analysis based on business requirements for each project and create new programming logic to satisfy business requirement as required;
- Use industry standard guidelines, standards and best practices for the integration with IBM Integration Bus (IIB) Enterprise Service Bus (ESB);
- Use industry standard guidelines, standards and best practices for the integration IBM InfoSphere Information Server (IIS) QualityStage and DataStage;
- · Provide guidance to package a fixed or enhanced solution for redeployment;
- Use industry standard guidelines, standards and best practices for the install, configuration and testing of IBM MDM products to all CBSA environments;
- Design and implement system integration components to integrate the IBM InfoSphere MDM server solution with CBSA business systems and third party reference data sources;
- Use industry standard guidelines, standards and best practices for the deployment of MDM on new high end infrastructure Research and Development Lab(RDL);
- Use industry standard guidelines, standards and best practices for the deployment of Application code, including customizations;
- Develop, integrate and test MDM components working with an approved interchange data format;
- Use industry standard guidelines, standards and best practices for the performance tuning, load balancing and optimization strategies for MDM Server lenvironment:
- Provide guidance with the configuration of RDL for production sizing;
- · Provide guidance with the MDM security frameworks and integration with CBSA security policy and identity stores; and
- Provide guidance to the project manager with regards to work effort estimations for development and customization of IBM MDM COTS product.
   Deliverables

The Contractor shall deliver the following:

- Comments on service or solution design due within 2 weeks of start date of TA;
- Comments on MDM high level design and detail design due within 2 weeks of start date of TA;
- · eManifest MDM database migration strategy due within 2 weeks of start date of TA;
- Comments on CBSA non-functional requirements due within 2 weeks of start date of TA;
- Updated Critical Design Review (CDR) documentation with all the changes due by February 23, 2019;
- · Comments on the MDM collapse results December 31, 2018;
- Document detailing processes and steps needed to build, administer and support all tests, in development and production environments due by February 23, 2019; and
- Resolve assigned defects within the user acceptance testing phase from February 23, 2019.

All deliverables must be provided in conformance with CBSA's standard desktop operating software which is Microsoft Office Suite (including Word, Excel, Visio and PowerPoint) and Archimate in English.

All deliverables must be provided in a manner that permits integration with CBSA's technical and operational environment as specified by the Project Authority. All deliverables must be in the format of or compatible with the (SLMF) Service Life Cycle Management Framework.

All deliverables must be provided to the Project Authority for their review and acceptance. Should there be problems or issues with the deliverables being presented, the Project Authority will notify the resource of the items that must be modified within five (5) business days of receipt of the deliverable.

#### Technical Environment

As defined in Section 12 of the contract number 47060-152116/002/EL.

#### Constraints

At no time and in no way is CBSA data to be removed from CBSA sites, nor will access to or from the Contractor's IT systems through the use of a session or ling (e.g. VPN) be permitted. The contractor must comply with CBSA internal security policies, directives, standards, and guidelines at all times during the contract.

The CBSA's working hours are between 07:00 to 18:00 Monday through Friday, except for Statutory Holidays where Government Offices are closed. These are core hours and are not representative of the duration of a Contractor's work day.

Language

The proposed Resource will be required to perform the work in English. Every individual proposed in its bid will be fluent in English. The individual proposed must be able to communicate orally and in writing in English without any assistance and with minimal errors.



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Reporting Requirements						
was undertaken during the rep	e resource must provide a weekly status r orting period, what work is still outstandi rity. The status reports must also be supp	ng, and an	ny issues or concerns t	hat the resource wants to i	dentify to the	rd
Location of Work						
	formed on CBSA premises located at 333 ere is no travel requirement under this T			rio, K1A OL8 or an alternati	ve CBSA location in	
Client Support The contractor will be provided required. CBSA will provide each	d with a CBSA user ID, password, worksta ch resource with a building access pass, n	tion and e etwork ac	-mail address and othe count when working in	er materials (supporting do n CBSA premises.	cumentation) as	
Period of Services / Période d	e service;					
Initial Start Date / Date de débu	t initiale: Aug 16, 201	7 Initia	Il End Date / Date de fi	n initiale : Nov	/ 1, 2018	
Extented End Date (See Reason	for the Amendment) / Date de fin prolon	igée (voir F	Raison pour la modific	ation) : Feb	ruary 23, 2019	
Option To Extend Initial End	d Date / Option pour prolonger la date de	fin initiale	2			
Travel Requirement(s) / Exigence	ce(s) de voyage : No travel requi	rements				
Work Location(s) / Lieu(x) de tra	avail : 355 North River	r Road, Oti	tawa, Ontario K1A 0L8			
PART 2 (completed by the Contractor	and/or the Technical/Project Authority)/PARTIE	<b>2</b> (complété pa	ar le Contracteur et/ou le Respon	sable technique / Chargé du projet)		
	/ Ressource(s) du Contracteur	ouvée, seules le	es ressources sulvantes peuvent f	ournir des services sous la présente AT		
Name / Nom	Category / Catégorie	Level / Niveau	Linguistic Profile / Profile linguistique	Level of Security / Níveau de sécurité	PWGSC Security File No. / Nº du dossier de sécurité TPSGC	
	Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java Development	3	English / Anglais	Secret	95866596	-
B. EstimatedCost/Coûtes	timatif					

Category / Catégorie	Level / Niveau	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Cost / Coût estimatif
+ grammer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java Development	3			\$252,800.00
Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java Development	3			\$339,700.00
Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java Development	3			\$98,750.00
			Estimated Cost / Coût estimati	\$691,250.00
Total E	stimated Trav	el and Living Cost / Coût tota	Il estimatif de voyage et de vie	\$0.00
Taxe % applied / % de taxes appliquées	13.000	Applio	cable Taxes / Taxes applicables	\$89,862.50
***		Total Estima	ated Cost / Coût total estimatif	\$781,112.50

By signing this TA, the authorized client authority and/or the PWGSC Contracting Authority certify(ies) that the content of this TA is in accordance with the conditions of the Contract.	En apposant sa signature sur l'AT, le client autorisé et/ou l'autorité contractante de TPSGC atteste(nt) que le contenu de cette AT est conforme aux conditions du contrat.		
The client's authorization limit is \$300,000.00 . When the value of a TA and its amendments including GST/HST) is in excess of this limit, the TA must be signed by the authorized client and orwarded to the PWGSC Contracting Authority for authorization.	La limite d'autorisation du client est \$300,000.00 , Lorsque la valeur de l'AT et ses modifications (incluant la TPS/TVH) dépasse cette limite, l'AT doit être signée par le client autorisé et transmise l'autorité contractante de TPSGC pour autorisation.		
Mether Voods  Name of Authorized Client / Nom du client autorise  Date	Name of Contracting Authority / Nom de Date l'autorité contractante		
Signature Signature	Villeneuve, Julie 3 Digitally signed by Villeneuve, Julie 3 Date: 2018.10.30 09:07:25 -04'00'		

Mark Coldham	Account Executive	Males Ill	10/29/2018
Name and Title of individual authorized to sign on behalf of the Contractor / Nom et titre de la personne autorisée à signer au nom de l'entrepreneur		Signature	Date

/ DADTIE 4

PARI 1 (completed by the Technical/Project Au	thority) / PAKII	Complété par	le Responsable technique / Chargé	du projet)			
A. General Information / Information	nations généra	ales					
Contract Number / Numéro du contr	at: 47060-152	116/002/EL					
Contractor Name / Nom du Contract	eur : Donna Cor	nna Inc.					
Task Authorization (TA) No. / Nº de l'autorisation de tâches (AT) :	Commitment No l'engagement :	ment No. / Nº de Financial Coding / Code Date of Issuance / Date Response required by / financier: d'émission: Réponse requise par :					
2018000635	1000337354	1	92040060/2001/16100	Feb 11, 2019	Feb 15, 2019		
B. For Amendments Only / Aux	fins de modifi	cation seule	<u>ment</u>				
Amendment No. / Nº de la modificat	ion : 4						
Reason for the Amendment / Raisor	n pour la modifica	ation :					
Amendment #4 is raised for the foll 1) Extend end date from February 23 2) Add 3)Increase total cost from \$691,250.	3, 2019 to Februa days total esti	mated level of		,			
C. TA Requirements / Exigence:	s relatives à l'A	I					
Required Resource(s) / Ressource(s) r	requise(s)						
Category / Catégorie	Level / Niveau	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Linguistic Profile / Profile linguistique	Required Level(s) of Sec Niveau(x) de sécurité re			
Programmer/Software Developer - S Master Data Management (MDM) - Java I		3		English / Anglais	Secret	+	
Statement of Work (tasks, deliverable	es, reports, etc.)	/ Énoncé des tr	avaux (tâches, livrables,	rapports, etc.)			
See Attached Annex A - Statement o	f Work						
Period of Services / Période de serv	rice:						
Initial Start Date / Date de début initi	ale:		Initial End Da	te / Date de fin initiale :	Nov 1, 2018		
Extented End Date (See Reason for th	ne Amendment) ,	/ Date de fin p	rolongée (voir Raison po	our la modification) :	Feb 23, 2020		
Option To Extend Initial End Date	e / Option pour p	rolonger la da	te de fin initiale				
Travel Requirement(s) / Exigence(s) of	de voyage :	No travel r	equirements				
Work Location(s) / Lieu(x) de travail :		355 North	River Road, Ottawa, On	tario K1A OL8			
PART 2 (completed by the Contractor and/orti	he Technical/Project Auth	nority) / PAR1	<b>TIE 2</b> (complété par le Contract	eur et/ou le Responsable technique / Cha	rgé du projet)		
A. Contractor Resource(s) / Res Note: once approved, only the following resources may			is approuvée, seules les ressources	sulvantes peuvent fournir des services sc	us la présente AT.		

Name / Nom	Category / Catégorie	Level / Niveau	Linguistic Profile/ Profile linguistique	Level of Security / Niveau de sécurité	PWGSC Security File No. / Nº du dossier de sécurité TPSGC	
	Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java Development	3	English / Anglais	Secret	95866596	+

B. Estimated Cost/Coûtestimatif					
Category / Catégorie	Level / Niveau	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Cost / Coût estimatif	
in IBM Master Data Management (MDM) - Java Development	3			\$1,137,600.00	
	\$1,137,600.00				
Total	\$0.00				
Taxe % applied / % de taxes appliquées	13.000	Applio	\$147,888.00		
	\$1,285,488.00				

## PART 3 - TA APPROVAL BY CANADA / PARTIE 3 - APPROBATION DE L'AT PAR LE CANADA

By signing this TA, the authorized client authority and/or the PWGSC Contracting Authority certify(les) that the content of this TA is in accordance with the conditions of the Contract.			En apposant sa signature sur l'AT, le client autorisé et/ou l'autorité contractante de TPSGC atteste(nt) que le contenu de cette AT est conforme aux conditions du contrat.			
The client's authorization limit is \$300,000.00 . When the value of a TA and its amendments (including GST/HST) is in excess of this limit, the TA must be signed by the authorized client and forwarded to the PWGSC Contracting Authority for authorization.		La limite d'autorisation du client est \$300,000.00 . Lorsque la valeur de l'AT et ses modifications (incluant la TPS/TVH) dépasse cette limite, l'AT doit être signée par le client autorisé et transmise l'autorité contractante de TPSGC pour autorisation.				
Name of Authorized Client / N. PENWARDEN	om du client autorisé By signed by PENWARDEN ROBERT Cop. GWESCO & OUMPERSONNEL.	Date	Name of Contracting Authority / Nom de l'autorité contractante	Date		
POREDT seriality	NWARDEN ROBERT. Humbornii 1906/9231119349 ROBERTS 14 66:33:25-80-007		Villeneuve, Julie	3 Digitally signed by Villeneuve, Julie 3 Date: 2019.02.13 16:16:14 -05'00'		

PART 4 - CONTRACTOR SIGNATURE / PARTIE 4 - SIGNATURE DU CONTRACTEUR



Travaux publics et Services gouvernementaux Canada

## TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

Name and Title of individual authorized to sign on behalf of the Contractor / Nom et titre de la personne autorisée à signer au nom de l'entrepreneur

Signature

7 6 10

Date

REQ#:1000337354-2018000635

## STATEMENT OF WORK ANNEX A

## Title

Canada Border Services Agency requires one (1) Programmer / Software Developer – Level 3 – Specialty in IBM Master Data Management (MDM) - Java development

## **Background**

The Canada Border Services Agency (CBSA) is undertaking an ambitious agenda of change in support of various Beyond the Border initiatives and Border modernization efforts. The Information, Science and Technology Branch (ISTB) support these efforts with oversight and alignment of major capital projects and the associated information technology solutions. Traditional IT functions have been augmented with program directorates that drive business transformation efforts and alignment of business solutions in portfolios for Travelers, Commercial, Common and Corporate projects.

To advance the planning, development and implementation of the Agency's transformation agenda, ISTB is implementing an enterprise approach to the management of its portfolio of systems, projects and services.

In support of the above, the Common Services Portfolio Directorate (CSPD) has undertaken the Master Data Management Service (MDMS), to put in place an Enterprise Building Blocks that can be leveraged by other initiatives including the Entry/Exit (E/E), Dynamic Risking, CAED, eManifest stabilization, CARM and GPF projects. The delivery of the Entry/Exit project is dependent on successful delivery of the foundational components found in MDMS.

## Objective

To acquire professional services for one Application/Software Developer Level 3 to perform the tasks and deliverables below.

## Tasks and Deliverables

The Contractor must provide the professional services to perform the following tasks and deliver the following project deliverables, first in draft format, to be followed by a final product incorporating comments of the CSPD project manager (or their delegates).

## **Tasks**

To provide CBSA with technical expertise and guidance and development support, ongoing until the end of the TA, on the following:

The Contractor must perform the following tasks:

REQ#:1000337354-2018000635

- Develop and integrate technical frameworks and strategies, in order to meet the business and application requirements for the:
- MDM initial load for Dynamic Risking;
- MDM development tasks for CERS;
- MDM development tasks for CARM;
- Implement and support MDM maintenance batch processes;
- Follow the CBSA project development life cycle with the Identity Management team in engineering
  a cleansing/standardization solution based on non-functional requirements (e.g. reliability,
- Provide analysis to define system functionality using the Unified Modeling Language (UML);
- Lead and facilitate Joint Application Architecture and Design sessions;
- Develop code based upon design and requirements documents for the Identity Management team:
- for MDM maintenance batch scripts;
- for the integration of Initial Load processes with CBSA automation tools;
- Support Quality Assurance activities;
  - 1. Fixing functional defects;
- Executing and monitoring Initial Load Jobs across all CBSA STAR environment;
- Monitor the need for design changes as the MDMS & Entry Exit project progresses;
- Define assumptions and constraints of architecture with regard to physical structure and data collection;
- Develop post-implementation plan for monitoring/tracking design stability;
- Perform and coordinate impact analysis of design and technology changes for any new initiative;
- Produce SLMF documentation for design and component development;
- · Participate in the reviews for design, coding, detailed level design and system use cases;
- Provide weekly scheduled knowledge transfer sessions to CBSA application support team.

## **Deliverables**

The Contractor shall deliver the following:

- Critical Design Review (CDR) documentation including the Architecture Design and Specification (ADS) documents. To be delivered in a Word format following the SLMF template, by September 30, 2019;
- Interface Control Documentation (ICD) and Web Service Definition Language (WSDL) and XML
   Schema Definition (XSD) schema, by November 30, 2019;
- · Documented Industry best practices and guidance, ongoing until the end of the contract;
- Develop and support MDM maintenance batch scripts for CAED release 898 (December 2019);
- Bi-Weekly Status Report outlining the Identification of any issues or concerns, ongoing until the end of the contract;
- Perform scheduled knowledge transfer sessions to CBSA application support team to enable and enhance support of MDM, ongoing until the end of the contract;

REO#:1000337354-2018000635

- DSC Split services development, Sept 30, 2019;
- ICES Integration model changes, Nov 30, 2019;
- ICES integration services development, Jan 31, 2020.

All deliverables must be provided in conformance with CBSA's standard desktop operating software which is Microsoft Office Suite (including Word, Excel, Visio and PowerPoint) and Archimate in English.

All deliverables must be provided in a manner that permits integration with CBSA's technical and operational environment as specified by the Project Authority. All deliverables must be in the format of or compatible with the (SLMF) Service Life Cycle Management Framework.

All deliverables must be provided to the Project Authority for their review and acceptance. Should there be problems or issues with the deliverables being presented, the Project Authority will notify the resource of the items that must be modified within five (5) business days of receipt of the deliverable.

## **Technical Environment**

As defined in Section 12 of the contract number 47060-152116/002/EL.

## Constraints

At no time and in no way is CBSA data to be removed from CBSA sites, nor will access to or from the Contractor's IT systems through the use of a session or link (e.g. VPN) be permitted. The contractor must comply with CBSA internal security policies, directives, standards, and guidelines at all times during the contract.

The CBSA's working hours are between 07:00 to 18:00 Monday through Friday, except for Statutory Holidays where Government Offices are closed. These are core hours and are not representative of the duration of a Contractor's work day.

## Language

The proposed Resource will be required to perform the work in English. Every individual proposed in its bid will be fluent in English. The individual proposed must be able to communicate orally and in writing in English without any assistance and with minimal errors.

## Reporting Requirements

If a TA has been authorized, the resource must provide a weekly status report in MS Word electronically to the Project Authority outlining what work was undertaken during the reporting period, what work is still outstanding, and any issues or concerns that the resource wants to identify to the attention of the Project Authority. The status reports must also be supported by a monthly detailed time sheet mapped to deliverables, using standard template.

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## **Location of Work**

The work is expected to be performed on CBSA premises located at 333 North River Road, Ottawa, Ontario, K1A OL8 or an alternative CBSA location in the National Capital Region. There is no travel requirement under this Task Authorization.

## **Client Support**

The contractor will be provided with a CBSA user ID, password, workstation and e-mail address and other materials (supporting documentation) as required. CBSA will provide each resource with a building access pass, network account when working in CBSA premises.





Public Works and Government Services Canada

Traval Requirement(s) / Exigence(s) de voyagen/a

Travaux publics et Services gouvernementaux Canada

## TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

PART 1: Horquesday not notinguit repost Autonomy / PARTIE 1: Acceptable in Description (Comptibilities)

A. General Information / Informations générales

Contract Number / Numéro du contrat : 47060-152116/002/EL.

Contract Number / Numéro du contrat ; Contractor Name / Nom du Contracteur : DONNA CONA INC. Response required Task Authorization (TA) No. Commitment No. Financial Coding Date of Issuance Nº de l'autorisation de tâches (AT) : Nº de l'engagément : Code financier: Date d'émission : Réponse requise d'ici le : 2018000635 11000337354 1920400060/6001/10400 Jan 18, 2020 29-Jan-2020

B. For Amendments Only / Aux fins do modification seulement

Amendment No. / Nº de la modification : 5

Reason for the Amendment / Raison pour la modification :

Amendment #5 is raised for the following:

1) Extend end date from February 23, 2020 to February 23, 2021;

2) Add : days total estimated level of effort;

3) Increase total cost from \$1,726,125,00 to \$1,611,600,00 (Alf applicable taxes extra).

C. TA Requirements / Exigences relatives à l'AT			
Required Resource(s) / Ressource(s) requise(s)			
Cátegory and Level Catégorie et Niveau	Estimated Level of Effort (days) / Nivesiu d'effort estimatif (jours)	Linguistic Profile / Profile linguistique	Required Level(s) of Security / Niveau(x) de sécurité requis
Programmer/Software Developer - Specially in IBM Master Data Management (MDM) - Java development Level 3		English / Anglais	
Statement of Work (tasks, deliverables; reports, etc.) / Énoncé des tr See attached / Voir pièce jointe	aveux (tāches, livrables	, rapports, etc.)	
Period of Services / Période de service:	······································		
Initial Start Date / Date de début initiale : Nov 1,2018	- Initia	al End Date / Date de fin initiale :	23-Feb-2021
Extented End Date (See Reason for the Amendment) / Date de fin pr	rolongée (voir Raison po	ur la modification):	
Option To Extend Initial End Date / Option pour prolonger is dat	e de fin initiale		
Optional End Date(s) / Date(s) de fin optionnelle(s)	Status / Status		
X		Ö in Effect / en vicueur	

1 of 2

3						
900000	Work	Location(s)	/ Lleu(x)	de	travail	6

333 North River Road, Ottawa, Ontario, K1A BL8 or an alternative CBSA focation in the National Capital Region

## PART 2 (completed by the Contractor and/or the Technical Project Authority) / PARTIE 2 (complete partie Contractor et us to Responsible Inchnique & Charge du projet)

Contractor Resource(s) and Estimated	Cost / Ressource(s)	du Contracteur	t Coût tota	<u>i estimatif</u>	
Name / Nom Category and Level / Catégorie et Niveau	PWGSC Security File No. / Nº du dossier de sécurité TPSGC	Linguistic Profile / Profit linguistique	Per Olem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Estimated Cost / Coût total estimatif
Programmer/Software Developer - Specialty in IBM - Master Data Management (MDM) - Java development		English/Anglais			\$1,611,600.00
			Estimated	Cost / Coût estimatif	\$1,611,600.00
, , , , , , , , , , , , , , , , , , ,	otal Estimated Travel ar	id Living Cost / Coût	total estimati	f de voyage et de vie	\$0.00
Taxes % applied # % taxes appliquées	13	Applicable Taxes /	faxes applica	bles	\$209,508.00
		Total Esti	nated Cost /	Coût total estimatif	\$1,821,108.00
Check applicable Basis of Pa Cocher la Base de Palement a	*	Maximum Price / Prix Maximum :		Firm Price / Prix Ferme :	

## PART 3 - TA APPROVAL BY CANADA / PARTIE 3 - APPROBATION DE L'AT PAR LE CANADA

By signing this TA, the authorized client authority and/or the PWGSC Contracting Authority certify(iss) that the content of this TA is in accordance with the conditions of the Contract.  The client's authorization limit is \$150,000. When the value of a TA and its smendments (excluding Applicable Taxes) is in excess of this limit, the TA must be signed by the authorized client and forwarded to the PWGSC Contracting Authority for authorization.	En apposant sa signature sur FAT, le client subdisé ellos l'autorité contractante de TPSGC atleste(nt) que le contenu de cette AT est conforme aux conditions du contrat. La limite d'autorisation du client est 150,000 S. Lorsque la valeur de FAT et ses modifications (excluent les taxes applicables) dépasse cette limite, FAT doit être signée par le client autorisé et transmise à l'autorité contractante de TPSGC pour sufortsation
Name of Technical Authority / Nom de l'autorité techni Date  Signature	Name of Contracting Authority / Norm de l'autorité contractante Date  CASTONGUA  Distally agreet by CASTONGUAY MARBEARNE DIE Greek Over, Out-consider, Out-feilschneibt, Strikkanskabelskunstenbergstrouw / Ont-fast froudunk residente des deutschliebts Signature ARTEANNE Document Docu
PART 4 - CONTRACTOR SIGNATURE / PARTIE 4 - SI  Market Contractor / Name and Title of individual authorized to sign on behalf of the Contractor / Norm et titre Signature de la personne autorisée à signer au norm de l'entreprener.	37/16 Jan 2020

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	(		33.55				46.70
A. General Information / Informations génér	<u>ales</u>						
Contract Number / Numéro du contrat : 47060-152	2116/002/EL						
Contractor Name / Nom du Contracteur : Donna Co	nna Inc.						
Task Authorization (TA) No. / N° Commitment N de l'autorisation de tâches (AT) : l'engagement :	o. / Nº de	Financial Coding / Code financier:		Date of Issuance / Da d'émission :		oonse required by / onse requise par :	
2018000635 1000337354	337354 192040060/2001/16100 August 16, 2017 August 17, 2017						
B. For Amendments Only / Aux fins de modi	ication seu	llement					
Amendment No. / Nº de la modification :			90090090QC00 <del>09099</del> 0 <del>99</del> 1				
Reason for the Amendment / Raison pour la modific	ation :						
			*********			<u>,</u>	
C. TA Requirements / Exigences relatives à l'	AT	,					
Required Resource(s) / Ressource(s) requise(s)							
Category / Catégorie  Level / Niveau  Category / Catégorie  Level / Niveau  Cigours)				guistic Profile / Profile linguistique		evel(s) of Security / de sécurité requis	
Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java development	3			English / Anglais Secre			[+] [-]
Statement of Work (tasks, deliverables, reports, etc.	) / Énoncé de	es travaux (tâches, livrable:	s, rapı	ports, etc.)			
Programmer / Software Developer – Level 3 - MDM	– Java devel	opment (Server Expert)					
Background							
The Canada Border Services Agency (CBSA) is unde Border modernization efforts. The Information, Scie capital projects and the associated information tec drive business transformation efforts and alignmen	ence and Tecl hnology solu at of business	hnology Branch (ISTB) sup itions. Traditional IT functions solutions in portfolios for	port i ons h Trave	these efforts with over ave been augmented elers, Commercial, Cor	rsight and a with progra mmon and (	lignment of major am directorates that Corporate projects.	
To advance the planning, development and impler the management of its portfolio of systems, project	nentation of ts and service	the Agency's transformations.	ion ag	genda, ISTB is impleme	enting an er	iterprise approach t	0
In support of the above, the Common Services Port place an Enterprise Building Blocks that can be leve of the Entry/Exit project is dependent on successfu	raged by oth	ner initiatives including the	e Enti	ry/Exit (E/E), BioMetric	ment Servic s and UPAS	e (MDMS), to put in S projects. The deliv	ery
Objective							
Acquire professional services for one Application/S	oftware Dev	eloper Level 3 to perform	the ta	sks and deliverables b	elow.		
Tasks and Deliverables							
The Contractor must provide the professional servi	ces to perfor	m the following tasks and	deliv	er the following proje	ct deliverab	les, first in draft for	nat,

Travaux publice et Services gouvernementaux

# TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

to be followed by a final product incorporating comments of the CSPD project manager (or their delegates).

## Tasks

To provide to CBSA, ongoing until the end of the TA, technical expertise and guidance on the following topics:

- Participate in Joint Applications Discussion sessions;
- Review and comment on service or solution design based on IBM best practices.
- · Review and comment on MDM high level design (including ADS documents) based on IBM best practices.
- Develop System requirements, System Use Cases based on industry standard practices.
- Use industry standard guidelines, and best practices to develop MDM detail design documentation in order to confirm or identify implementation approach;
- Review and comment on CBSA non-functional requirements
- Provide weekly scheduled knowledge transfer sessions to CBSA application support team;
- Use industry standard best practices for solution implementation, integration, and operation in production;
- Perform defect analysis based on business requirements for each project and create new programming logic to satisfy business requirement as required:
- · Use industry standard guidelines, standards and best practices for the integration with IBM Integration Bus (IIB) Enterprise Service Bus (ESB);
- Use industry standard quidelines, standards and best practices for the integration IBM InfoSphere Information Server (IIS) QualityStage and DataStage;
- Provide guidance to package a fixed or enhanced solution for redeployment;
- Use industry standard guidelines, standards and best practices for the install, configuration and testing of IBM MDM products to all CBSA environments;
- Design and implement system integration components to integrate the IBM InfoSphere MDM server solution with CBSA business systems and third party reference data sources;
- Use industry standard guidelines, standards and best practices for the deployment of MDM on new high end infrastructure Research and Development Lab(RDL):
- · Use industry standard guidelines, standards and best practices for the deployment of Application code, including customizations;
- Develop, integrate and test MDM components working with an approved interchange data format;
- Use industry standard guidelines, standards and best practices for the performance tuning, load balancing and optimization strategies for MDM Server
  environment;
- · Provide guidance with the configuration of RDL for production sizing;
- · Provide guidance with the MDM security frameworks and integration with CBSA security policy and identity stores; and
- Provide guidance to the project manager with regards to work effort estimations for development and customization of IBM MDM COTS product.

#### Deliverables

The Contractor shall deliver the following:

- Comments on service or solution design due within 2 weeks of start date of TA;
- Comments on MDM high level design and detail design due within 2 weeks of start date of TA;
- eManifest MDM database migration strategy due within 2 weeks of start date of TA;
- · Comments on CBSA non-functional requirements due within 2 weeks of start date of TA;
- System requirements, System Use Cases due by Sept. 29, 2017;
- IBM MDM server solution components including web service customizations and user interface customizations using Java technologies due by Sept.
   29, 2017:
- Updated Critical Design Review (CDR) documentation due by October 31, 2017;
- Comments on the MDM Server components hardware sizing due by October 31, 2017;
- · Comments on MDM data mapping and MDM business functional requirement due by October 31, 2017;
- MDM server solution component packaging and promotion strategy document due by October 31, 2017;
- Document detailing processes and steps needed to build, administer and support all tests, in development and production environments due by February 23, 2018; and
- Resolve assigned defects within the user acceptance testing phase from February 1 to February 23, 2018.
- All deliverables must be provided in conformance with CBSA's standard desktop operating software which is Microsoft Office Suite (including Word, Excel, Visio and PowerPoint) and Archimate in English.
- All deliverables must be provided in a manner that permits integration with CBSA's technical and operational environment as specified by the Project Authority. All deliverables must be in the format of or compatible with the (SLMF) Service Life Cycle Management Framework.
- All deliverables must be provided to the Project Authority for their review and acceptance. Should there be problems or issues with the deliverables being presented, the Project Authority will notify the resource of the items that must be modified within five (5) business days of receipt of the deliverable.

Technical Environment

Travaux publics et Services gouvernementaux Canada

							······································
As defined in Section 12 of the c	ontract number 47060-	152116/002/EL.					
Constraints At no time and in no way is CBS. or ling (e.g. VPN) be permitted. the contract.	A data to be removed fro The contractor must con	om CBSA sites, no nply with CBSA in	or will acco	ess to or from the Cont curity policies, directive	tractor's IT systems throu es, standards, and guidel	gh the use of a sessi ines at all times duri	ion
The CBSA's working hours are b These are core hours and are no Language					days where Government	Offices are closed.	
The proposed Resource will be proposed must be able to comm	required to perform the municate orally and in w	work in English. E riting in English w	very indivithout ar	vidual proposed in its lay assistance and with	bid wil <b>l be</b> fluent in Engli minimal errors.	sh. The individual	
Reporting Requirements							
If a TA has been authorized, the was undertaken during the repo attention of the Project Authori template.	orting period, what work	c is still outstanding	ng, and ar	ny issues or concerns t	hat the resource wants to	o identify to the	
Location of Work							
The work is expected to be perf the National Capital Region. The	formed on CBSA premise ere is no travel requirem	es located at 333 i ent under this Ta	North Rive sk Author	er Road, Ottawa, Ontai ization.	io, K1A OL8 or an alterna	tive CBSA location in	n
Client Support							
The contractor will be provided required. CBSA will provide each	with a CBSA user ID, par h resource with a building	ssword, workstati ng access pass, ne	ion and e- etwork ac	mail address and othe count when working i	er materials (supporting on CBSA premises.	documentation) as	
Period of Services / Période de	e service:	,					
Initial Start Date / Date de débu	t initiale : Date o	of TA Award	Initia	l End Date / Date de fi	n initiale :	bruary 23, 2018	
Extented End Date (See Reason	for the Amendment) / D	ate de fin prolon	gée (voir	Raison pour la modific	ation):		
Option To Extend Initial End	Date / Option pour pro	longer la date de	fin initial	•			
Travel Requirement(s) / Exigenc	e(s) de voyage :	N/A					
Work Location(s) / Lieu(x) de tra	vail:	355 North River	Road, Ott	awa, Ontario K1A 0L8			
PART Zamumu necessary	in the factor of the same	PARTIE 2	(Carrotte)	se Pasienther Way & Members	do special China di posto.		
A. Contractor Resource(s) /	Ressource(s) du Cor	1tracteur TA. / Nota : une fois appro	ouvée, seules l	es ressources suivantes peuvent f	ournir des services sous la présente A	т.	
Name / Nom	ces may provide services under this 1A./ Nota: une tois appro		Level / Niveau	Linguistic Profile / Profile linguistique	Level of Security / Nivea de sécurité	PWGSC Security	
	grammer/Software Specialty in IBN Data Management developm	M Master (MDM) - Java	3	English / Anglals	Secret	95866596	(H)

3. Estimated Cost / Coût estimatif			***************************************	No. 2012			
Category / Catégorie	Level / Niveau	Per Diem Rate Journalie		Total Cost / Coût estimatif			
+ prammer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java development	3	200000000000000000000000000000000000000			\$252,800.00		
Estimated Cost / Coût estimatif \$252							
Total	Estimated Tra	vel and Living Cos	t / Coût total	l estimatif de voyage et de vie	\$0.00		
Taxe % applied / % de taxes appliquées	13.000		Applic	able Taxes / Taxes applicables	\$32,864.00		
			Total Estima	ated Cost / Coût total estimatif	\$285,664.00		
PART 3 - TA APPROVAL BY CANA	DA / PAR	ne 3 - Appro	BATION	DECATPARLECAN	OA.		
By signing this TA, the authorized client authority and/or the certify(ies) that the content of this TA is in accordance with t	e PWGSC Contract the conditions of	ting Authority E-	n apposant sa si itteste(nt) que le	ignature sur l'AT, le client autorisé et/o e contenu de cette AT est conforme au:	u l'autorité contractante de TPSGC ex conditions du contrat.		
The client's authorization limit is \$300,000.00 . When the val (including GST/HST) is in excess of this limit, the TA must be forwarded to the PWGSC Contracting Authority for authoriz	alue of a TA and its signed by the aut	s amendments La thorized client and (li	Incluant la TPS/T	isation du client est \$300,000.00 . Lorso TVH) dépasse cette limite, l'AT doit être ctante de TPSGC pour autorisation.	que la valeur de l'AT et ses modification: e signée par le client autorisé et transmi:		
Robert Dawlands	Aug 16 2	47	NI	A			

# Name of Authorized Client / Nom du client autorisé Date Name of Contracting Authority / Nom de l'autorité contractante Signature

PARTA: CONTRACTOR SIGNATURE / PARTIE'S - SIGN	KATUNE DA EORTRACTE	<b>R</b>
MARK (@ LD HVAM ACCOUNT EXECUTIVE  Name and Title of individual authorized to sign on behalf of the Contractor / Nom et titre de la personne autorisée à signer au nom de l'entrepreneur	A Coll_Signature	08/16/2017 Date

PART Surregates in Scripcatrinject	Authority) / PART	E1 (complete pai	fe Responsable technique / Charge	du projec			
A. General Information / Infor	mations génér	ales_				Na Carlo	
Contract Number / Numéro du con	trat : 47060-152	116/002/EL					
Contractor Name / Nom du Contracteur : Donna Conna Inc.							
Task Authorization (TA) No. / N° de l'autorisation de tâches (AT) :	Commitment No		inancial Coding / Code nancier :	Date of Issuance / D d'émission :	•	e required by / requise par :	
2018001578	1000339847	1	92040060-6001-34210	Feb 7, 2018	Feb 13, 20		
B. For Amendments Only / Au	x fins de modif	ication seule	ement				
Amendment No. / Nº de la modifica	ation :						
Reason for the Amendment / Raiso	on pour la modific	ation :					
			***************************************				
						in an absolute vistor - to a	
C. TA Requirements / Exigence	es relatives à l'/	<u>AT</u>					
   Required Resource(s) / Ressource(s)	) requise(s)						
Category / Catégori	ie	Level / Nivea	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Linguistic Profile / Profile linguistique	Required Level(s Niveau(x) de sécr		
Programmer/Software Developer - Data Management (MDM) - Java		3	\$00,000,000	English / Anglais	Secret	+	
Statement of Work (tasks, deliveral	bles, reports, etc.)	/ Énoncé des t	ravaux (tâches, livrables	s, rapports, etc.)			
Title							
Programmer / Software Developer	– Level 3 - MDM -	- Java develop	ment				
Background The Canada Border Services Agenc Border modernization efforts. The capital projects and the associated drive business transformation effo	Information, Scier information tech	nce and Techn nology solutic	ology Branch (ISTB) sup ons. Traditional IT function	port these efforts with ove ons have been augmented	rsight and alignm with program dire	ent of major ectorates that	
To advance the planning, develop the management of its portfolio of			e Agency's transformati	on agenda, ISTB is implem	enting an enterpri	ise approach to	
In support of the above, the Comm place an Enterprise Building Blocks of the Entry/Exit project is depende	s that can be lever	aged by other	initiatives including the	e Entry/Exit (E/E), BioMetric	ment Service (MD s and UPASS proje	MS), to put in ects. The delivery	
Objective To acquire professional services fo Tasks and Deliverables	r one Application	/Software Dev	eloper Level 3 to perfor	m the tasks and deliverable	es below.		
The Contractor must provide the p to be followed by a final product ir	orofessional servic ncorporating com	es to perform ments of the (	the following tasks and CSPD project manager (o	deliver the following proje or their delegates).	ct deliverables, fir	st in draft format,	

Travaux publics et Services gouvernementaux Canada

# TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

#### Tasks

To provide CBSA with technical expertise and guidance and development support, ongoing until the end of the TA, on the following:

- Participate in Joint Applications Discussion sessions;
- Provide quidelines, and best practices for the MDM detail design document in order to confirm or identify implementation approach;
- Provide weekly scheduled knowledge transfer sessions to CBSA application support team;
- Mentor CBSA staff on MDM and Data Stewardship deliverables to enable the CBSA to provide on-going support and maintenance
- · Develop industry best practices for solution implementation, integration, and operation in production;
- Perform defect analysis and create new requirements as required;
- Review, modify and update service or solution design, as necessary;
- Provide guidelines, standards and best practices for the integration with IBM Integration Bus (IIB) Enterprise Service Bus (ESB);
- Provide guidelines, standards and best practices for the deployment of Application code, including customizations.
- Provide guidance to package a fixed or enhanced solution for redeployment;
- Develop, integrate and test MDM components working with an approved interchange data format.
- Provide guidance to the project manager for HR planning.
- Design and implement system integration components to integrate the IBM InfoSphere MDM server solution with CBSA business systems and third party reference data sources;
- · Provide guidelines, standards and best practices for the deployment on new high end infrastructure Research and Development Lab(RDL).

#### Deliverables

The Contractor shall deliver the following:

- Define and review System Use Cases (SUCs) including but not limited to: MDM mapping transformation rules, Search, Collapse process, Uncollapse process, Split process, Master record maintain process, and Data validation process by February 15, 2018;
- Create MDM processes and services including but not limited to: Search, Collapse, Uncollapse, Split, Maintain master record, Update, Data quality assessment, and Update reference data by May 31, 2018;
- Integrate the code bases for Commercial MDM and Traveller MDM by May 31, 2018
- Develop, integrate and test MDM components working with an approved interchange data format by March 31, 2018;
- Review and update Critical Design Review (CDR) documentation including but not limited to: System requirements specifications, Architecture and design specification (ADS)-part 3, 4 and 5, ADS Annex A, System-Requirement Traceability Matrix, and Release notes by February 15, 2018;
- Review and comment on CBSA for MDM non-functional requirements by February 15, 2018;
- Document the processes and steps needed to build, administer and support all tests, in development and production environments March 31, 2018; and
- Resolve assigned defects within the user acceptance testing phase on going until end of TA.

All deliverables must be provided in conformance with CBSA's standard desktop operating software which is Microsoft Office Suite (including Word, Excel, Visio and PowerPoint) and Archimate in English.

All deliverables must be provided in a manner that permits integration with CBSA's technical and operational environment as specified by the Project Authority. All deliverables must be in the format of or compatible with the (SLMF) Service Life Cycle Management Framework.

All deliverables must be provided to the Project Authority for their review and acceptance. Should there be problems or issues with the deliverables being presented, the Project Authority will notify the resource of the items that must be modified within five (5) business days of receipt of the deliverable.

#### Technical Environment

As defined in Section 12 of the contract number 47060-152116/002/EL.

#### Constraints

At no time and in no way is CBSA data to be removed from CBSA sites, nor will access to or from the Contractor's IT systems through the use of a session or ling (e.g. VPN) be permitted. The contractor must comply with CBSA internal security policies, directives, standards, and guidelines at all times during the contract.

The CBSA's working hours are between 07:00 to 18:00 Monday through Friday, except for Statutory Holidays where Government Offices are closed. These are core hours and are not representative of the duration of a Contractor's work day.

#### Language

The proposed Resource will be required to perform the work in English. Every individual proposed in its bid will be fluent in English. The individual proposed must be able to communicate orally and in writing in English without any assistance and with minimal errors.

Reporting Requirements if a TA has been authorized, to was undertaken during the re- attention of the Project Author template.	porting period, v	vhat work is still outstandi	ng, and a	ny issues or concerns	that the resource wants to	identify to the			
Location of Work The work is expected to be po the National Capital Region. T	erformed on CBS/ There is no travel	A premises located at 333 requirement under this Ta	North Riv sk Autho	er Road, Ottawa, Onta rization.	rio, K1A 0L8 or an alternati	ve CBSA location i	n		
Client Support The contractor will be provide required. CBSA will provide e	ach resource with	ser ID, password, workstat a building access pass, no	ion and e etwork ac	-mail address and oth count when working i	er materials (supporting do n CBSA premises.	ocumentation) as			
Period of Services / Période	de service:								
Initial Start Date / Date de déb	out initiale :	Feb 19, 2018	Initia	l End Date / Date de fi	n initiale : Dec	31, 2018			
Extented End Date (See Reaso	on for the Amend	ment) / Date de fin prolon	gée (voir	Raison pour la modific	ration):				
Option To Extend Initial E	nd Date / Option	pour prolonger la date de	fin initial	e					
Travel Requirement(s) / Exige	nce(s) de voyage	: No travel requir	ement ur	der this Task Authoriz	ation.				
Work Location(s) / Lieu(x) de t	travail :	333 North River	orth River Road, Ottawa, Ontario K1A 0L8 or an alternative CBSA location in the NCR.						
PARTY CONSIDERATION STATES	ir and/or the Yechnical Pi	oject Authority i / PARTIE 2	(complété p	ur le Contracteur eVol le Respon	sable technique / Charge du projet)		11		
A. Contractor Resource(s Note: once approved, only the following res	) / Ressource(s ources may provide service	) du Contracteur les under this TA. / Nota : une fois appro	ouvée, seules l	es ressources suivantes peuvent	fournir des services sous la présente AT.				
Name / Nom			Level / Niveau	Linguistic Profile / Profile linguistique	Level of Security / Niveau de sécurité	PWGSC Security			
	Specialty in	er/Software Developer - IBM Data Management Java Development	3	English / Anglais	Secret	1016058	+		
B. Estimated Cost / Coût	estimatif		<del></del>				***************************************		

Category / Catégorie	Level / Niveau	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Cost / Coût estimatif
rammer/Software Developer - Specialty IBM Data Management (MDM) - Java Development	3			\$197,500.00
	\$197,500.00			
Total f	stimated Trav	rel and Living Cost / Coût tota	al estimatif de voyage et de vie	\$0.00
Taxe % applied / % de taxes appliquées	13.000	Applic	cable Taxes / Taxes applicables	\$25,675.00
				\$223,175.00

# PART 3 + 1/A APPROVAL BY CANADA / PARTIE 3 - APPROBATION DE L'AT PAR LE CANADA By signing this TA, the authorized client authority and/or the PWGSC Contracting Authority certify(ies) that the content of this TA is in accordance with the conditions of the Contract. The client's authorization limit is \$300,000.00 . When the value of a TA and its amendments including GST/HST) is in excess of this limit, the TA must be signed by the authorized client and torwarded to the PWGSC Contracting Authority for authorization. This is in excess of this limit, the TA must be signed by the authorized client and torwarded to the PWGSC Contracting Authority for authorization. This is in excess of this limit, the TA must be signed by the authorized client and torwarded to the PWGSC Contracting Authority for authorization. This is authorized client autorisé et/ou l'autorité contractante de TPSGC attestion du client est \$300,000.00 . Lorsque la valeur de l'AT et ses modifications (incluant la TPS/TVH) dépasse cette limite, l'AT doit être signée par le client autorité entransmise à l'autorité contractante de TPSGC pour autorisation. Name of Authorized Client / Nom du client autorisé Signature This is in accordance with the conditions of the Contractante de TPSGC pour autorisation du client est \$300,000.00 . Lorsque la valeur de l'AT et ses modifications (incluant la TPS/TVH) dépasse cette limite, l'AT doit être signée par le client autorisé et transmise à l'autorité contractante de TPSGC pour autorisation. Name of Contracting Authority / Nom de l'autorité contractante

PART 4 - CO	NTRACTOR SIGI	NATURE / PAI	TIE 4 - SIGNA	TURE DU CONTRACTEUR	
	O WHOM ndividual authorized to sign o prisée à signer au nom de l'er		EXECUTIVE tor/Nom et titre	Mollo	Feb 6,2018

PART 1 (completed by the Technical/Project Authority) / PARTIE 1 (complete par le Responsable technique / Charge du project)

A. General Information / Informations génér	rales		***************************************				*************************		
Contract Number / Numéro du contrat : 47060-15.	2116/002/EL		***************************************						
Contractor Name / Nom du Contracteur : Donna Co	onna Inc.		***************************************		ssission de de la company de la company de la company de la company de la company de la company de la company		in de vien de de de de de de de de de de de de de		
Task Authorization (TA) No. / № Commitment N de l'autorisation de táches (AT) : l'engagement :	lo. / № de	Financial Coding / Code		Date of Issuance / D	ate	Response required by Reponse require	1		
2018001578 1000339847									
B. For Amendments Only / Aux fins de modil	fication seu	ement					***************************************		
Amendment No. / № de la modification : 1			***************************************						
Reason for the Amendment / Raison pour la modific	ation :		***************************************		······································		.040.00		
Adding days	***************************************		***************************************				***************************************		
			•		t				
C. TA Requirements / Exigences relatives à l'	AI								
Required Resource(s) / Ressource(s) requise(s)			***************************************				***		
Category / Catégorie	Level / Nivea	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)			Required Level(s) of Security / Niveau(x) de sécurité requis				
Programmer/Software Developer - Specialty in IBM Data Management (MDM) - Java Development	3			English / Anglais	Secret		+		
Statement of Work (tasks, deliverables, reports, etc.)	/ Enoncé des	travaux (tāches, livrables	, rapp	oorts, etc.)			4 5		
Title									
Programmer / Software Developer – Level 3 - MDM	– Java develo <sub>l</sub>	oment							
Background The Canada Border Services Agency (CBSA) is under Border modernization efforts. The Information, Scier capital projects and the associated information tech drive business transformation efforts and alignment To advance the planning, development and implem the management of its portfolio of systems, projects	nce and Techrinology solution of business solution of the	ology Branch (ISTB) suppons, Traditional IT functional IT function	port ti ons ha Trave	hese efforts with over ive been augmented lers, Commercial, Con	sight a with pr nmon a	nd alignment of major rogram directorates that and Corporate projects.			
In support of the above, the Common Services Portf place an Enterprise Building Blocks that can be lever of the Entry/Exit project is dependent on successful	aged by othe	initiatives including the	Entry	//Exit (E/E), BioMetrics	ment Se and U	ervice (MDMS), to put in PASS projects. The delive	ery		
Objective To acquire professional services for one Application/ Tasks and Deliverables The Contractor must provide the professional servic to be followed by a final product incorporating com	es to perform	the following tasks and o	delive	r the following projec			nat,		
Tasks			•••••••••••			Page 1	of a		

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# TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

To provide CBSA with technical expertise and guidance and development support, ongoing until the end of the TA, on the following:

- Participate in Joint Applications Discussion sessions;
- · Provide guidelines, and best practices for the MDM detail design document in order to confirm or identify implementation approach;
- Provide weekly scheduled knowledge transfer sessions to CBSA application support team;
- · Mentor CBSA staff on MDM and Data Stewardship deliverables to enable the CBSA to provide on-going support and maintenance
- Develop industry best practices for solution implementation, integration, and operation in production;
- Perform defect analysis and create new requirements as required;
- Review, modify and update service or solution design, as necessary;
- Provide guidelines, standards and best practices for the integration with IBM Integration Bus (IIB) Enterprise Service Bus (ESB);
- · Provide guidelines, standards and best practices for the deployment of Application code, including customizations.
- Provide guidance to package a fixed or enhanced solution for redeployment;
- Develop, integrate and test MDM components working with an approved interchange data format.
- Provide guidance to the project manager for HR planning.
- Design and implement system integration components to integrate the IBM InfoSphere MDM server solution with CBSA business systems and third party reference data sources;
- Provide guidelines, standards and best practices for the deployment on new high end infrastructure Research and Development Lab(RDL).
   Deliverables

The Contractor shall deliver the following:

- Define and review System Use Cases (SÜCs) including but not limited to: MDM mapping transformation rules, Search, Collapse process, Uncollapse process, Split process, Master record maintain process, and Data validation process by February 15, 2018;
- Create MDM processes and services including but not limited to: Search, Collapse, Uncollapse, Split, Maintain master record, Update, Data quality assessment, and Update reference data by May 31, 2018;
- Integrate the code bases for Commercial MDM and Traveller MDM by May 31, 2018
- Develop, integrate and test MDM components working with an approved interchange data format by March 31, 2018;
- Review and update Critical Design Review (CDR) documentation including but not limited to: System requirements specifications, Architecture and design specification(ADS)-part 3, 4 and 5, ADS Annex A, System-Requirement Traceability Matrix, and Release notes by February 15, 2018;
- Review and comment on CBSA for MDM non-functional requirements by February 15, 2018;
- Document the processes and steps needed to build, administer and support all tests, in development and production environments March 31, 2018; and
- · Resolve assigned defects within the user acceptance testing phase on going until end of TA.

All deliverables must be provided in conformance with CBSA's standard desktop operating software which is Microsoft Office Suite (including Word, Excel, Visio and PowerPoint) and Archimate in English.

All deliverables must be provided in a manner that permits integration with CBSA's technical and operational environment as specified by the Project Authority. All deliverables must be in the format of or compatible with the (SLMF) Service Life Cycle Management Framework.

All deliverables must be provided to the Project Authority for their review and acceptance. Should there be problems or issues with the deliverables being presented, the Project Authority will notify the resource of the items that must be modified within five (5) business days of receipt of the deliverable.

Technical Environment

As defined in Section 12 of the contract number 47060-152116/002/EL.

#### Constraints

At no time and in no way is CBSA data to be removed from CBSA sites, nor will access to or from the Contractor's IT systems through the use of a session or ling (e.g. VPN) be permitted. The contractor must comply with CBSA internal security policies, directives, standards, and guidelines at all times during the contract.

The CBSA's working hours are between 07:00 to 18:00 Monday through Friday, except for Statutory Holidays where Government Offices are closed. These are core hours and are not representative of the duration of a Contractor's work day. Language

The proposed Resource will be required to perform the work in English. Every individual proposed in its bid will be fluent in English. The individual proposed must be able to communicate orally and in writing in English without any assistance and with minimal errors.

## Reporting Requirements

If a TA has been authorized, the resource must provide a weekly status report in MS Word electronically to the Project Authority outlining what work was undertaken during the reporting period, what work is still outstanding, and any issues or concerns that the resource wants to identify to the attention of the Project Authority. The status reports must also be supported by a monthly detailed time sheet mapped to deliverables, using standard template.

Location of Work



The work is expected to be per the National Capital Region. Th							ario, K1A 0L8 or	an alternat	ive CBSA location	in
Client Support The contractor will be provide required, CBSA will provide ea	d with a CBSA ( ch resource wit	user ID, passi th a building	word, worksta access pass, n	tion and e etwork a	e-mail a	ddress and oth when working	ier materials (suj in CBSA premise	pporting d	ocumentation) as	
Period of Services / Période d	le service:				***************************************			**************************************		***************************************
Initial Start Date / Date de début initiale : Feb 19, 2018 Initial End Date / Date de fin initiale ; Dec 31, 2018										
Extented End Date (See Reason	for the Amend	dment) / Dat	e de fin prolon	ngée (voi:	Raison	pour la modifi	cation) :	f*************************************	***************************************	
Option To Extend Initial End	d Date / Option	pour prolor	nger la date de	e fin initia	le			<b>L</b>		
Travel Requirement(s) / Exigence	ce(s) de voyage	: [N	o travel requir	rement u	nder thi	s TA				
Work Location(s) / Lieu(x) de tra	avail ;	[3	33 North River	Road, O	tawa, O	nt. KIA 0L8 o	r an alternative (	CBSA locati	on in the NCR	
PART 2 (completed by the Contractor of	and/or the Technical/P	roject Authority )	/PARTIE 2	(complété p	ar le Contra	cteur et/ou le Respon	sable technique / Charg	é du projetj		,
A. Contractor Resource(s)				***************************************						
Hater nace approved, only the following resour	rćes may provide servi	ces under this fA.	Nota : une fois appro	ouvée, soulos	les ressourc	Es suivantes pouvent	faurnii des services sous	la pretente Al		7
Name / Nom	Cate	gory / Catég	orie			vistic Profite / e linguistique			PWGSC Security File No. / Nº du dossier de sécurité TPSGC	***************************************
	Specialty in	er/Software [ IBM Data Mi - Java Develo	anagement	3	3 English / Anglais		Secret		1016058	
B. Estimated Cost / Coût es	timatif	<del></del>		ooroo <del>dan aanaan daaraa</del>				***************************************		•••••
Category / Catégori	ie	Level / Niveau		Per Diem Rate / Taux journalier Estimated Level of Effor (days) / Niveau d'effor estimatif (jours)			veau d'effort	Total Cos estimatif		
+ prammer/Software Develop n IBM Data Mangement (MI Development		3			***************************************			\$1	97,500.00	
Programmer/Software Develop in IBM Data Mangement (MI Development		3						\$1	18,500.00	
					E	Estimated Cost	/ Coût estimatif	\$3	116,000.00 🗸	•
	Total	Estimated Tr	avel and Living	g Cost / C	oùt tota	ıl estimatif de \	oyage et de vie		\$0,00	
Taxe % applied / % de tax	es appliquées	13.000			Applic	able Taxes / Ta	exes applicables	S.	41,080.00	
	*			Tota	al Estima	ated Cost / Coû	it total estimatif	\$3	57,080.00 🗸	

Public Works and Inavails publics of Services graverisementaux Canada

## TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

## PART 3 - TA APPROVAL BY CANADA / PARTIE 3 - APPROBATION DE L'AT PAR LE CANADA

gning this TA, the authorized client authority and/or the PWGSC Contracting Authority) that the content of this TA is in accordance with the conditions of the Contra	
client's authorization limit is \$300,000.00 . When the value of a TA and its amendm ading G\$T/H\$T) is in excess of this limit, the TA must be signed by the authorized cl acted to the PWG\$C Contracting Authority for authorization.	
Rin dopensee  Me of Authorized Client Nom du client autorise  Date  Date	Name of Contracting Authority / Nom de Pautorité contractante Villeneuve,  Signature Julie 3  Date Digitally signed by Villeneuve, Julie 3 Date: 2018.10.19 08:49:05 -04'00'

## PART 4 - CONTRACTOR SIGNATURE / PARTIE 4 - SIGNATURE DU CONTRACTEUR

MARK COLOHAM	ACLOUNT EXECUTIVE	Mel	07/26/2018
isame and Title of individual authorized to sign on b de la personne autorisée à signer au nom de l'entrep	ehalf of the Contractor / Nom et titre Sign	illar	Date

A. Contractor Resource(s) / Ressource(s) du Contracteur

# TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

PART 1 (completed by the Technical/Project Authority)	/ PARTI	E 1 (complété par	le Responsable technique / Charge	é du projet)	
A. General Information / Informatio	ns généra	ales			
Contract Number / Numéro du contrat :	47060-152	116/002/EL			
Contractor Name / Nom du Contracteur :	DONNA CO	ONA INC.			
	nitment No		inancial Coding / Code nancier :	Date of Issuance / D d'émission :	ate Response required by / Réponse requise par :
2019002452	339847	1	Nov 8, 2019		
B. For Amendments Only / Aux fins of	de modifi	ication seule	ement		
Amendment No. / № de la modification :	2				
Reason for the Amendment / Raison pour	la modific	ation :			
Amendment #2 is raised for the following 1) Extend end date from February 23, 2020 2) Add day 3)Increase total cost from 474,000.00 to 94	0 to Februa s total esti	mated level of			
C. TA Requirements / Exigences rela	tives à l'A	<u>AT</u>			
Required Resource(s) / Ressource(s) requis	e(s)				
Category / Catégorie		Level / Niveau	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Linguistic Profile / Profile linguistique	Required Level(s) of Security / Niveau(x) de sécurité requis
Programmer/Software developer - Specia Master Data Management (MDM) - J Development		3		English / Anglais	+
Statement of Work (tasks, deliverables, rep		/ Énoncé des t	ravaux (tâches, livrables	s, rapports, etc.)	
See Attached Annex A - Statements of Wo	rk				
Period of Services / Période de service:					
Initial Start Date / Date de début initiale :	Jan	24, 2019	Initial End Da	ite / Date de fin initiale :	May 31, 2019
Extented End Date (See Reason for the Am	endment)	/ Date de fin p	rolongée (voir Raison p	our la modification) :	Feb 23, 2021
Option To Extend Initial End Date / Op	tion pour p	orolonger la da	te de fin initiale		
Travel Requirement(s) / Exigence(s) de voy	age :	N/A			
Work Location(s) / Lieu(x) de travail :		333 North Capital Re		itario, K1A 0L8 or an alterna	ative CBSA location in the National
PART 2 (completed by the Contractor and/or the Techn	ical/Project Auti	hority) / PART	TE 2 (complété par le Contract	eur et/ou le Responsable technique / Ch	argé du projet)

Note: once approved, only the following resources may provide services under this TA. / Nota: une fois approuvée, seules les ressources suivantes peuvent fournir des services sous la présente AT.

Name / Nom	Category / Catégorie		Level / Niveau			Level of Securit de sécurité	y / Niveau	PWGSC Security File No. / Nº du dossier de sécurité TPSGC		
	Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java Development			3	Englis	sh / Anglais				
B. Estimated Cost / Coût e	<u>stimatif</u>									
Category / Catégorie Level / Niveau				m Rate / <sup>-</sup> ournalier	Гаих	(days) / N	Level of Effort iveau d'effort atif (jours)	Total Cost / Coût estimatif		
+ grammer/Software Develo BM Master Data Managen Java Developmer	nent (MDM) -	3						\$9	948,000.00	
					E	stimated Cost	t / Coût estimatif	\$9	948,000.00	
	Total	Estimated Trav	vel and Livin	g Cost / C	oût tota	l estimatif de	voyage et de vie		\$0.00	
Taxe % applied / % de ta	xes appliquées	13.000			Applic	able Taxes / T	axes applicables	\$	123,240.00	
				Tot	al Estima	ited Cost / Co	ût total estimatif	\$1	,071,240.00	
PART 3 - TA APPROVA	L BY CANA	DA / PART	ΠΕ 3 - <b>Α</b> Ρ	PROBA	ATION	DE L'AT P	AR LE CANA	<b>NDA</b>		
By signing this TA, the authorized client certify(ies) that the content of this TA is							le client autorisé et/o e AT est conforme au:		entractante de TPSGC lu contrat.	
The client's authorization limit is \$300,00 (including GST/HST) is in excess of this li forwarded to the PWGSC Contracting Al	imit, the TA must be	signed by the aut		nd (inclu	ant la TPS/1		e limite, l'AT doit être		le l'AT et ses modificati client autorisé et trans	
Name of Authorized Client / Nom du co	_	ate AROUZE TONI 51:58 -04'00'			rité contrac uud,	tting Authority / National Aut	lom de	Date		
Signature				Signa		obe: 2020 04 08 12-28-24 -04/00'	-			

## PART 4 - CONTRACTOR SIGNATURE / PARTIE 4 - SIGNATURE DU CONTRACTEUR

Mark Coldham	Account Executive	DocuSigned by:	2020-04-06
Name and Title of individual authorized to sign on behalf of the Contractor / Nom et titre de la personne autorisée à signer au nom de l'entrepreneur		Signed #C5A97F0424	Date



Public Works and Government Services Canada

Travaux publics et Services gouvernementaux Canada

## TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

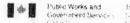
PART 1 (completed by the Technical/Project Authority) / PARTIE 1 (complété par le Responsable technique / Chargé du projet)

A. General Information / Informations of	iénérales	The control of the co	21.13.04.13.10.06.13.54.4.7.7.12.10.04.4.7.7.11.10.10.10.10.10.10.10.10.10.10.10.10.		en en en en en en en en en en en en en e			
Contract Number / Numéro du contrat :	47060-152116/002/E	:L						
Contractor Name / Nom du Contracteur :								
Task Authorization (TA) No. № de l'autorisation de tâches (AT) :	Commitment No. N° de l'engagement :	Financial Coding Code financier :		Date of Issuance Date d'émission :	Response required by Réponse requise d'ici le :			
2018001579	1000339848	1920400060/6001/10400		Jan 18, 2020	29-Jan-2020			
B. For Amendments Only / Aux fins de modification seulement								
Amendment No. / N⁰ de la modification : 4								
Reason for the Amendment / Raison pour la m	odification :							
Amendment #4 is raised for the following:  1) Extend end date from February 23, 2020 to February 23, 2021;  2) Add days total estimated level of effort;  3) Increase total cost from (All applicable taxes extra).								
C. TA Requirements / Exigences relatives à l'AT								
Required Resource(s) / Ressource(s) requise(s)								
Category and Level Catégorie et Niveau		Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	_	: Profile / Profile guistique	Required Level(s) of Security / Niveau(x) de sécurité requis			
Programmer/Software Developer - S Infosphere Information Server (IIS) Dat Stage Level 3		Englis	sh / Anglais					
Statement of Work (tasks, deliverables, reports, etc.) / Énoncé des travaux (tâches, livrables, rapports, etc.)								
See attached / Voir pièce jointe								
Period of Services / Période de service:								
Initial Start Date / Date de début initiale :								
Initial Start Date / Date de début initiale : 05-Mar-2018 Initial End Date / Date de fin initiale : 23-Feb-2021  Extented End Date (See Reason for the Amendment) / Date de fin prolongée (voir Raison pour la modification):								
☐ Option To Extend Initial End Date / Option				,	L			
Optional End Date(s) / Date(s) de fin	- Status / Statut							
X		O In Effect / en vigueur						
Travel Requirement(s) / Exigence(s) de voyage	n/a							

333 North River Road, Ottawa, Ontario, K1A 0L8 or an alternative CBSA location Work Location(s) / Lieu(x) de travail : in the National Capital Region PART 2 (completed by the Contractor and/or the Technical/Project Authority) / PARTIE 2 (complété par le Contracteur et/ou le Responsable technique / Chargé du projet) Contractor Resource(s) and Estimated Cost / Ressource(s) du Contracteur et Coût total estimatif Per Diem Estimated Level of Total Estimated **PWGSC Security File** Effort (days) / Name / Nom Linguistic Profile / Rate / No. / Nº du dossier de Cost / Niveau d'effort Profil linguistique Taux Category and Level / Catégorie et Niveau Coût total estimatif sécurité TPSGC estimatif (jours) journalier Programmer/Software Developer - Specialty \$1,179,800.00 English/Anglais in IBM Master Data Management (MDM) Java development \$1,179,800.00 Estimated Cost / Coût estimatif Total Estimated Travel and Living Cost / Coût total estimatif de voyage et de vie \$0.00 \$153,374.00 13 Applicable Taxes / Taxes applicables Taxes % applied # % taxes appliquées \$1,333,174.00 Total Estimated Cost / Coût total estimatif Maximum Price / Firm Price / Check applicable Basis of Payment / Prix Ferme: Cocher la Base de Paiement applicable : Prix Maximum: PART 3 - TA APPROVAL BY CANADA / PARTIE 3 - APPROBATION DE L'AT PAR LE CANADA By signing this TA, the authorized client authority and/or the PWGSC Contracting En apposant sa signature sur l'AT, le client autorisé et/ou l'autorité contractante de TPSGC atteste(nt) que le contenu de cette AT est conforme aux conditions du contrat. Authority certify(ies) that the content of this TA is in accordance with the conditions of the Contract. La limite d'autorisation du client est 150,000 \$. Lorsque la valeur de l'AT et ses The client's authorization limit is \$150,000. When the value of a TA and its modifications (excluant les taxes applicables) dépasse cette limite, l'AT doit être signée par le client amendments (excluding Applicable Taxes) is in excess of this limit, the TA must autorisé et transmise à l'autorité contractante de TPSGC pour autorisation be signed by the authorized client and forwarded to the PWGSC Contracting Authority for authorization. Name of Contracting Authority / Nom de l'autorité contractante Date Name of Technical Authority / Nom de l'autorité techni Date Michaud DN: CN = Michaud, Daniel Daniel PWGSC-TPSGC Date: 2020.03.16 16:36:18 Signature Signature

## PART 4 - CONTRACTOR SIGNATURE / PARTIE 4 - SIGNATURE DU CONTRACTEUR

Mark Coldham	Account Executive	DocuSigned by:	2020-03-17
	ed to sign on behalf of the Contractor / e autorisée à signer au nom de l'entreprend	Signature	Date



fravaux palenes es Den vær godsverhernsnings Canada

A. General Information / Info	rmations géné	rales			,	***************************************
Contract Number / Numéro du cor	ntral: 47060-15	2116/002/EL			alle de la companya de la compa	forforour encener un recovere
Contractor Name / Nom du Contra	cteur : Donna Co	onna Inc.				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Task Authorization (TA) No. / No de l'autorisation de tâches (AT) :	Commitment N l'engagement :		inancial Coding / Code nancier :	Date of Issuance / [ d'émission :	Date Response require Réponse requise (	. ,
2018001579	1000339848		92040060/6001/34210	Jul 17, 2018	Jul 19, 2018	Virolando estres desetado establemento
B. For Amendments Only / Au	x fins de modil	ication seule	ment			
Amendment No. / № de la modifica	ation : 1					
Reason for the Amendment / Raiso		ation :	der dels der hannen von eine verste des den der des des des des des des des des des des		and the property of the second	
Add an additional days	***************************************			till det state for the first of		**********
				tining to the state of the stat		
C. TA Requirements / Exigence	es relatives à l'	AT				
Required Resource(s) / Ressource(s)		*****				
Category / Catégori	in the second second second second second second second second second second second second second second second	Level / Niveau	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Linguistic Profile / Profile linguistique	Required Levelis) of Secur Niveau(x) de sécurité requ	
Programmer/Software Developer - InfoSphere Information Server (iIS) Quality Stage		3		English / Anglais	Secret	+
Statement of Work (tasks, deliverab	iles, reports, etc.)	/ Énoncé des tr	avaux (täches, livrables	, rapports, etc.)		
fitle						
Programmer / Software Developer	- Level 3 - in IBM	InfoSphere Info	ormation Server (IIS) Da	itaStage and QualityStage		
Background The Canada Border Services Agency Border modernization efforts. The le Bapital projects and the associated in Arrive business transformation effort	nformation, Scien information techr is and alignment	ce and Techno nology solution of business solu	logy Branch (ISTB) supp s. Traditional IT functio utions in portfolios for 1	port these efforts with over ins have been augmented Travelers, Commercial, Con	rsight and alignment of ma with program directorates mmon and Corporate proje	ijor that cts.
o advance the planning, developm he management of its portfolio of t	*		Agency's transformatio	i <mark>n ag</mark> enda, ISTB is impleme	inting an enterprise approv	ich to
n support of the above, the Commo slace an Enterprise Bullding Blocks of the Entry/Exit project is depende	th <mark>at c</mark> an b <b>e l</b> evera	nged by other in	nitiatives including the	Entry/Exit (E/E), BioMetrics		
o acquire professional services for a asks and Deliverables						
The Contractor must provide the pro to be followed by a final product inc	ofessional service corpurating comm	s to perform th nents of the CS	e following tasks and d PD project manager (or	leliver the following project their delegates).	t deliverables, first in draft	format,



#### Tasks

To provide CBSA with technical expertise and guidance and development support, ongoing until the end of the TA, on the following:

The Contractor must perform the following tasks:

- Develop and integrate technical frameworks and strategies, in order to meet the business and application requirements for the:
- 1. Commercial Data Quality Service (CDQS); and
- 2 Data Preparation and Loading Service (DPLS);
- 3 MOM initial load
- Implement IBM DataStage/QualityStage procedures and decision flows best practices for maintaining CDQS, the development of DPLS and ETL jobs.
   for initial loads;
- Follow the CBSA project development life cycle with the identity Management team in engineering a cleansing/standardization solution based on non-functional requirements (e.g. reliability,
- performance, usability, enhanced portability, high volumes) for CDQS and DPLS;
- Provide analysis to define system functionality using the Unified Modeling Language (UML);
- Lead and facilitate Joint Application Architecture and Design sessions;
- Identify and document IBM DataStage/QualityStage and Extract, Transform and Load (ETL) specific standards relating to programming, documentation and testing, covering program libraries, data dictionaries, naming conventions while conforming to the CBSA's standards and quidelines.
- Identify and document iBM DataStage/QualityStage Jobs that perform Data Cleansing and Data Standardization.
- Analyze and impact potential Cleansing/Standardizing releases that could impact CDQS and DPLS,
- Provide advice, recommendations, and mentoring on IBM DataStage/QualityStage Jobs and ETL processes to the Identity Management team;
   Develop and present briefings/presentations related to the IBM DataStage/QualityStage Jobs and ETL process to business clients, IT partners and senior management as required;
- Develop code based upon design and requirements documents for the Identity Management team;
- 1, for the maintenance of CDQS;
- 2 for the development of DPLS
- 3. Data Cleansing:
- 4. Data Standardization.
- 5. for the development of ETL and Initial Load processes;
- 6. for the integration of Initial Load processes with CBSA automation tools;
- Support Quality Assurance activities;
- 1. Fixing functional defects
- 2. Addressing non-functional defects related to ETL jobs, DPLS and CDQS:
- Executing and monitoring Initial Load Jobs across all CBSA STAR environment;
- Unit test the code for CDQS, DPLS and ETL prior to releasing it for integration testing;
- Monitor the need for design changes as the MDMS & Entry Exit project progresses;
- Define assumptions and constraints of architecture with regard to physical structure and data collection;
- Develop post implementation plan for monitoring/tracking design stability;
- Perform and coordinate impact analysis of design and technology changes;
- Advise project leader/manager on planning and controlling projects using an iterative development approach for the CDQS, DPLS and ETL tasks;
- Provide recommendations on enhancing application performance for the cleansing and standardizing components CDQS, DPLS and ETL processes:
- Produce SLMF documentation for design and component development;
- Participate in the reviews for design, coding, detailed level design and system use cases related to DPLS, CDQS and ETL processes.

#### Deliverables

The Contractor shall deliver the following:

- Eeedback report on the DPLS and Initial Load development plan. To be delivered in email or word format, Within 2 weeks of start of TA;
- Critical Design Review (CDR) documentation for DPLS including the Architecture Design and Specification (ADS) documents. To be delivered in a Word format following the SLMF template. By February 15, 2018;
- Interface Control Documentation (ICD) and Web Service Definition Language (WSDL) and XML Schema Definition (XSD) schema for DPLS Data Cleansing and Data Standardization, By January 31, 2018;
- Documented Industry best practices and guidance with regards to DPLS (Data Cleansing and Standardization), Initial Load Jobs which includes:
- Data Analysis Report;
- Cleansing & Standardization rule development including the definition of the rules;
- · Testing.
- Support of Data extract:
- DataStage jobs to load data extract into DML tables;
- DataStage/ QualityStage jobs to run cleanse/standardization;
- Datastage jobs to create XML load file for MDM.

Work Location(s) / Lieu(x) de travail :	222 North Divor Do	ad, Ottawa, ONT. K1A 0L8	
Travel Requirement(s) / Exigence(s) de voyage :	No Travel requiren	ents	
Option To Extend Initial End Date / Option pour	prolonger la date de fin	nitale	
Extented End Date (See Reason for the Amendment)			
Initial Start Date / Date de début initiale :	ar 5, 2018	Initial End Date / Date de fin initiale :	Dec 31, 2018
Period of Services / Période de service:		***	
David of Sparkers / Parinda da carrica			
Client Support The contractor will be provided with a CBSA user ID required. CBSA will provide each resource with a bu	, password, workstauor iilding access pass, netv	n and e-mail address and other materials is to vork account when working in CBSA premis	apporting documentation) as ses.
The work is expected to be performed on CBSA pre the National Capital Region. There is no travel requi			r an alternative CBSA Incation in
Location of Work			
If a TA has been authorized, the resource must provide undertaken during the reporting period, what attention of the Project Authority. The status reportemplate.	work is still outstanding	g, and any issues or concerns that the resou	rce wants to identify to the
Reporting Requirements			
The proposed Resource will be required to perform proposed must be able to communicate orally and			
<b>Inese</b> are core hours and are not representative of Language	the duration of a Contri	actor's work day.	deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic deliconomic delico
the contract. The CBSA's working hours are between 07:00 to 18			overnment Offices are closed.
At no time and in no way is CBSA data to be remov or ling (e.g. VPN) be permitted. The contractor mus			
Technical Environment As defined in Section 12 of the contract number 4 Constraints	7060-152116/002/FI		
All deliverables must be provided in a manner that Authority. All deliverables must be in the format of All deliverables must be provided to the Project Authority will notify the deliverable.	for compatible with the thority for their review	e (SLMF) Service Life Cycle Management Fra and acceptance. Should there be problem	amework. s or issues with the deliverables
All deliverables must be provided in conformance Excel, Visio and PowerPoint) and Archimate in Eng	lish.		
Bi-Weekly Status Report outlining the Identification	on of any issues or conc	eins;	
<ul> <li>Develop DPLS application and Initial Load Jobs re 2018:</li> </ul>	eady for use (RFU) and n	nigrate to the transition environment for Us	er Acceptance testing. By May 31,

PART 2 (completed by the Contractor and/of the Technical/Project Authority) / PARTIE 2 (complete par le Contractor of the Responsable technique / Chargé du projet)



A. Contractor Resource(s)  Part area (approved only the following racin				avec søulest	let resources	savantes pruvent	lánguir <b>sés services</b> stass	la presente AT	
Namr / Nom	Category / Catégorie		Level / Niveau			Level of Security / Niveau de sécurité		PWGSC Security File No. / № du dossier de securité TPSGC	
	Programmer/Software Developer - Specialty in IBM InfoSphere Information Server (IIS) DataStage and Quality Stage			3	Englis	h / Anglais	Secret		95942096
B. Estimated Cost / Coût e	stimatif						idadan (qui innica na denda denda (na inne denda na denda na denda na denda na denda na denda na denda na dend		o entre de la constitución de la constitución de la constitución de la constitución de la constitución de la c
Category / Catego	rié	Level / Niveau	1	n Rate / ' urnalier	「aux	(days) / N	Level of Effort iveau d'effort atif (jours)	Total Co: estimatif	
+ prammer/Software Develo IBM InfoSphere Informatio DataStage and Quality	in Server (IIS)				***************************************		dels die die die des des productions des des des des des productions des des des des des des des des des de	\$	170,000.00
ProgrammerrSuftware Develo in IBM InfoSphere Informatio DataStage and Quality	in Server (IIS)							5	68,000.00 ✓
					E	stimated Cos	t / Coût estimatif	\$	238,000.00 🗸
recommenda e e e e e e e e e e e e e e e e e e e	Total F	stimated Trav	vel and Livin	g Cost / C	oút tota	l estimatif de	voyage et de vie		\$0.00
Taxe to applied / % de la	xes appliquees	13.000		***************************************	Applic	uble Taxes / I	axes applicables	\$	30,940.00
The state of the s				Tot	al Estima	ted Cost / Co	út total estimatií	\$	268,940.00
PART 3 - TA APPROVA	L BY CANA	DA/PARI	NE 3 - AP	PROB/	TION	DE L'AT P	AR LE CANA	DA	
By signing this TA this sulfiprized client with the State of this TA is							le client autorisé et/o e AT est conforme au		
the highest authorization limit a \$300,000 ordining of Linguism excess of this to covarined to receive this to covarine to receive the total authorization covaring to the covaring and the covaring to the co	mit, the IA must be a unionsal	ingred by the authors.	horized client ar	Latini d unclu fauto Mame	ille d'auton ant le TPS/I /Ilé contrac ansc	sation disclient e VHI depasse cett tante de TPSGC ( DUR, Silv ting Authority / F	si 5300,000,00 Lorsq e limite, l'Al doit étre pour aistorisation Digital Date: 2	jue i <b>a</b> valeur c sign <b>e</b> e par le	de IAI et ses modificati client autorise et trans
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PART 4 - CONTRACTO	RSIGNATUI	RE/PART	IE 4 - SIG	NATUI	RE DU	CONTRAC	TEUR		
MAAR A. m. 1 a. A		1 EXECU	*****	***************************************	1	21		m	26/208

PART 1 (completed by the Technical/Project Authority) / PART	TE 1 (complété p	ar la Responsable technique / Charg	š du projeti						
A. General Information / Informations géné	rales								
Contract Number / Numéro du contrat : 47060-15	2116/002/EL				56866666666666666666666666666666666666				
Contractor Name / Nom du Contracteur : Donna Co	onna Inc.								
Task Authorization (TA) No. / N° Commitment No. / N° de de l'autorisation de tâches (AT) : l'engagement : Financial Coding / Code financier : Date of Issuance / Date d'émission : Réponse required by / d'émission : Réponse required by / Répons									
2018001579 1000339848		192040060/6001/34210	Oct 17, 2018	Oct 31, 2018					
B. For Amendments Only / Aux fins de modi	fication seul	ement							
Amendment No. / Nº de la modification : 2					***************************************				
Reason for the Amendment / Raison pour la modific	cation :								
This amendment is being raised to increase the TA February 23, 2019.		) (before taxes), increase	the level of effort by da	ys, and extend the end o	date to				
C. TA Requirements / Exigences relatives à l'	AT				***************************************				
Required Resource(s) / Ressource(s) requise(s)									
Category / Catégorie	Level / Nivea	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Linguistic Profile / Profile linguistique	Required Level(s) of Se Niveau(x) de sécurité re					
Programmer/Software Developer - Specialty in IBM InfoSphere Information Server (IIS) DataStage and QualityStage	3		English / Anglais	Secret					
Statement of Work (tasks, deliverables, reports, etc.)	/ Énoncé des	travaux (tâches, livrables	, rapports, etc.)		J				
Application/Software Specialty in IBM InfoSphere In Number of resources: One Programmer/Software Do Title: Programmer / Software Developer – Level 3 – i	eveloper - Spe	cialty in IBM InfoSphere I	Information Server (IIS) Dat		e				
Background The Canada Border Services Agency (CBSA) is under Border modernization efforts. The Information, Scier capital projects and the associated information tech drive business transformation efforts and alignment	taking an amb nce and Techn nology solutio	itious agenda of change ology Branch (ISTB) supp ins. Traditional IT functio	in support of various Beyo port these efforts with over ons have been augmented	and the Border initiatives sight and alignment of r with program directorat	major tes that				
To advance the planning, development and implem the management of its portfolio of systems, projects		e Agency's transformatio	on agenda, ISTB is impleme	enting an enterprise app	roach to				
In support of the above, the Common Services Portf place an Enterprise Building Blocks that can be lever of the Entry/Exit project is dependent on successful	aged by other	initiatives including the	Entry/Exit (E/E), BioMetrics	•	'				
Objective To acquire professional services for one Application/ Tasks and Deliverables The Contractor must provide the professional service					aft format,				

## TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

to be followed by a final product incorporating comments of the CSPD project manager (or their delegates).

#### Tasks

To provide CBSA with technical expertise and guidance and development support, ongoing until the end of the TA, on the following:

The Contractor must perform the following tasks:

- Develop and integrate technical frameworks and strategies, in order to meet the business and application requirements for the:
- 1. Commercial Data Quality Service (CDQS); and
- 2. Data Preparation and Loading Service (DPLS);
- 3. MDM initial load
- Implement IBM DataStage/QualityStage procedures and decision flows best practices for maintaining CDQS, the development of DPLS and ETL jobs for initial loads;
- Follow the CBSA project development life cycle with the Identity Management team in engineering a cleansing/standardization solution based on non-functional requirements (e.g. reliability,
- performance, usability, enhanced portability, high volumes) for CDQS and DPLS;
- Provide analysis to define system functionality using the Unified Modeling Language (UML);
- Lead and facilitate Joint Application Architecture and Design sessions;
- Identify and document IBM DataStage/QualityStage and Extract, Transform and Load (ETL) specific standards relating to programming, documentation and testing, covering program libraries, data dictionaries, naming conventions while conforming to the CBSA's standards and guidelines;
- · Identify and document IBM DataStage/QualityStage Jobs that perform Data Cleansing and Data Standardization
- Analyze and impact potential Cleansing/Standardizing releases that could impact CDQS and DPLS.
- Provide advice, recommendations, and mentoring on IBM DataStage/QualityStage Jobs and ETL processes to the Identity Management team;
- Develop and present briefings/presentations related to the IBM DataStage/QualityStage Jobs and ETL process to business clients, IT partners and senior management as required;
- Develop code based upon design and requirements documents for the Identity Management team:
- for the maintenance of CDQS;
- 2. for the development of DPLS
- 3. Data Cleansing;
- 4. Data Standardization;
- 5. for the development of ETL and Initial Load processes;
- 6. for the integration of Initial Load processes with CBSA automation tools;
- Support Quality Assurance activities;
- 1. Fixing functional defects;
- Addressing non-functional defects related to ETL jobs, DPLS and CDQS;
- Executing and monitoring Initial Load Jobs across all CBSA STAR environment;
- Unit test the code for CDQS, DPLS and ETL prior to releasing it for integration testing;
- Monitor the need for design changes as the MDMS & Entry Exit project progresses;
- Define assumptions and constraints of architecture with regard to physical structure and data collection;
- Develop post-implementation plan for monitoring/tracking design stability;
- Perform and coordinate impact analysis of design and technology changes;
- · Advise project leader/manager on planning and controlling projects using an iterative development approach for the CDQS, DPLS and ETL tasks;
- · Provide recommendations on enhancing application performance for the cleansing and standardizing components CDQS, DPLS and ETL processes;
- Produce SLMF documentation for design and component development;
- Participate in the reviews for design, coding, detailed level design and system use cases related to DPLS, CDQS and ETL processes.

#### Deliverables

The Contractor shall deliver the following:

- · Feedback report on the DPLS and Initial Load development plan. To be delivered in email or word format. Within 2 weeks of start of TA;
- Critical Design Review (CDR) documentation for DPLS including the Architecture Design and Specification (ADS) documents. To be delivered in a Word
  format following the SLMF template. By February 15, 2018;
- Interface Control Documentation (ICD) and Web Service Definition Language (WSDL) and XML Schema Definition (XSD) schema for DPLS Data Cleansing and Data Standardization, By January 31, 2018;
- Documented Industry best practices and guidance with regards to DPLS (Data Cleansing and Standardization), Initial Load Jobs which includes:
- · Data Analysis Report;
- Cleansing & Standardization rule development including the definition of the rules;
- Testing;
- Support of Data extract;
- DataStage jobs to load data extract into DML tables;

## TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

DataStage/QualityStage jobs to run cleanse/standardization;

- Datastage jobs to create XML load file for MDM.
- To be delivered in a Word format. By September 30, 2018;
- Develop DPLS application and Initial Load Jobs ready for use (RFU) and migrate to the transition environment for User Acceptance testing. By May 31, 2018;
- Bi-Weekly Status Report outlining the Identification of any issues or concerns;

All deliverables must be provided in conformance with CBSA's standard desktop operating software which is Microsoft Office Suite (including Word, Excel, Visio and PowerPoint) and Archimate in English.

All deliverables must be provided in a manner that permits integration with CBSA's technical and operational environment as specified by the Project Authority. All deliverables must be in the format of or compatible with the (SLMF) Service Life Cycle Management Framework.

All deliverables must be provided to the Project Authority for their review and acceptance. Should there be problems or issues with the deliverables being presented, the Project Authority will notify the resource of the items that must be modified within five (5) business days of receipt of the deliverable.

#### Technical Environment

As defined in Section 12 of the contract number 47060-152116/002/EL.

#### Constraints

At no time and in no way is CBSA data to be removed from CBSA sites, nor will access to or from the Contractor's IT systems through the use of a session or ling (e.g. VPN) be permitted. The contractor must comply with CBSA internal security policies, directives, standards, and guidelines at all times during the contract.

The CBSA's working hours are between 07:00 to 18:00 Monday through Friday, except for Statutory Holidays where Government Offices are closed. These are core hours and are not representative of the duration of a Contractor's work day.

Language

The proposed Resource will be required to perform the work in English. Every individual proposed in its bid will be fluent in English, The individual proposed must be able to communicate orally and in writing in English without any assistance and with minimal errors.

#### Reporting Requirements

If a TA has been authorized, the resource must provide a weekly status report in MS Word electronically to the Project Authority outlining what work was undertaken during the reporting period, what work is still outstanding, and any issues or concerns that the resource wants to identify to the attention of the Project Authority. The status reports must also be supported by a monthly detailed time sheet mapped to deliverables, using standard template.

#### Location of Work

The work is expected to be performed on CBSA premises located at 333 North River Road, Ottawa, Ontario, K1A 0L8 or an alternative CBSA location in the National Capital Region. There is no travel requirement under this Task Authorization.

#### Client Support

The contractor will be provided with a CBSA user ID, password, workstation and e-mail address and other materials (supporting documentation) as required. CBSA will provide each resource with a building access pass, network account when working in CBSA premises.

Period of Services / Période de service:							
Initial Start Date / Date de début initiale :	Mar 5, 2018	Initial End Date / Date de fin initiale ;	Dec 31, 2018				
Extented End Date (See Reason for the Amend	ment) / Date de fin pro	olongée (voir Raison pour la modification) :	Feb 23, 2019				
Option To Extend Initial End Date / Option	pour prolonger la date	e de fin initiale					
Travel Requirement(s) / Exigence(s) de voyage	N/A						
Work Location(s) / Lieu(x) de travail ;	333 North R	333 North River Road, Ottawa Ontario K1A 0L8					

PART 2 (completed by the Contractor and/or the Technical/Project Authority) / PARTIE 2 (complete par la Contractor en et/ou le Responsable technique / Chargé du projet

e approved, only the following	resources may provide services under this TA. / Nota : une fols appro	uvee, seules i	es ressources anivantes between	rounni des services sous is presente A1.	
Name / Nom	Category / Catégorie	Level / Niveau	Linguistic Profile / Profile linguistique	Level of Security / Niveau	PWGSC Security File No. / Nº du dossier de sécurité TPSGC
	Programmer/Software Developer - Specialty in IBM InfoSphere Information Server (IIS) DataStage and QualityStage	3	English / Anglais	Secret	95942096

3. Estimated Cost / Coût estimatif				
Category / Catégorie	Level / Niveau	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Cost / Coût estimatif
+ grammer/Software Developer -Specialty IBM InfoSphere Information Server (IIS) DataStage and QualityStage	3			\$382,500.00
		E	Estimated Cost / Coût estimatif	\$382,500.00
Total E	stimated Trav	el and Living Cost / Coût tota	al estimatif de voyage et de vie	\$0.00
Taxe % applied / % de taxes appliquées	13.000	Applic	\$49,725.00	
	***************************************	Total Estima	ated Cost / Coût total estimatif	\$432,225.00

### PART 3 - TA APPROVAL BY CANADA / PARTIE 3 - APPROBATION DE L'AT PAR LE CANADA

En apposant sa signature sur l'AT, le client autorisé et/ou l'autorité contractante de TPSGC atteste(nt) que le contenu de cette AT est conforme aux conditions du contrat.				
l'AT et ses modifications lent autorisé et transmise				
***************************************				
ned by Villeneuve, 0.18 15:16:37 -04'00'				

### PART 4 - CONTRACTOR SIGNATURE / PARTIE 4 - SIGNATURE DU CONTRACTEUR

MARK COLOHAM ACCOUNT EXECUTIVE	Mill	10/18/2018
Name and Title of individual authorized to sign on behalf of the Contractor / Nom et titre	Signature	Date
de la personne autorisée à signer au nom de l'entrepreneur		

PART 1 (completed by the Technical/Project Authority) / PARTIE 1 (complété par le Responsable technique (Ch

A. General Information / Inform								
Contract Number / Numéro du contra		116/002/EL						
Contractor Name / Nom du Contracto	eur : Donna Cor	nna Inc.						
	Commitment No l'engagement :		Financial Coding / Code		e of Issuance / D		Response required by / Réponse requise par :	
2018001579	1000339848		192040060/6001/34210	Feb	ruary 11, 2019		February 15, 2019	
B. For Amendments Only / Aux 1	fins de modifi	cation seule	ement					
Amendment No. / № de la modificati	on : 3							
Reason for the Amendment / Raison	pour la modifica	ation ;						
Amendment #3 is raised for the follo 1) Extend end date from February 23 2) Add 3)Increase total cost from \$382,500 t	, 2019 to Februa days total esti	mated level o	•					
C. TA Requirements / Exigences	relatives à l'A	<u>I</u>						
Required Resource(s) / Ressource(s) re	equise(s)							
Category / Catégorie Le		Level / Nivea	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)		uistic Profile / Profile   Required   Niveau(x		rired Level(s) of Security / au(x) de sécurité requis	
Programmer/Software Developer - S InfoSphere Information Server (IIS) I QualityStage		3		Englis	h / Anglais	Secret	The second secon	
Statement of Work (tasks, deliverable	s, reports, etc.)	/ Énoncé des t	ravaux (tâches, livrables,	, rapports, (	etc.)			
See Attached Annex A - Statement of	Work							
Period of Services / Période de serv	ice:							
Initial Start Date / Date de début initia	ile: Mai	r 5, 2018	Initial End Date	te / Date de	e fin initiale :		Dec 31, 2018	
Extented End Date (See Reason for th	e Amendment) /	/ Date de fin p	rolongée (voir Raison po	our la modi	fication) :		Feb 23, 2020	
Option To Extend Initial End Date	/ Option pour p	rolonger la da	te de fin initiale					
Travel Requirement(s) / Exigence(s) d	e voyage ;	N/A						
Work Location(s) / Lieu(x) de travail :		333 North	River Road, Ottawa Ont	tario K1A Ol	8			
PART 2 (completed by the Contractor and/or the	e Technical/Project Auth	ority) / PAR	TIE 2 (complété par le Contract	teur et/ou le Res	oonsable technique / Cha	argé du projet	)	
A. Contractor Resource(s) / Ress	***************************************		ols approuvée, seules les ressources	sulvantes peuve	nt fournir des services so	xus la présenti	e AT.	



Name / Nom	Name / Nom Category / Catégorie		- · · · · · · · · · · · · · · · · · · ·	Level of Security / Niveau	PWGSC Security File No. / Nº du dossier de sécurité TPSGC	
	Programmer/Software Developer - Specialty in IBM InfoSphere Information Server (IIS) DataStage and QualityStage	3	English / Anglais	Secret	95942096	+

Level / Niveau	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Cost / Coût estimatif				
3			\$771,800.00				
Estimated Cost / Coût estimatif							
Estimated Trav	vel and Living Cost / Coût tota	al estimatif de voyage et de vie	\$0.00				
13.000	Applio	\$100,334.00					
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	Niveau  3  Estimated Trav	Niveau journalier  3  Estimated Travel and Living Cost / Coût total  13.000 Applie	Level / Niveau Per Diem Rate / Taux (days) / Niveau d'effort estimatif (jours)  3  Estimated Cost / Coût estimatif  Estimated Travel and Living Cost / Coût total estimatif de voyage et de vie  13.000  Applicable Taxes / Taxes applicables	Niveau   Per Diem Rate / Taux   (days) / Niveau d'effort   estimatif			

### PART 3 - TA APPROVAL BY CANADA / PARTIE 3 - APPROBATION DE L'AT PAR LE CANADA

		or the PWGSC Contracting Authority with the conditions of the Contract,	En apposant sa signature sur l'AT, le client autorisé e atteste(nt) que le contenu de cette AT est conforme	
(including GST/HST) is in		ne value of a TA and its amendments at be signed by the authorized client and norization.	La limite d'autorisation du client est \$300,000.00 . Lo (incluant la TPS/TVH) dépasse cette limite, l'AT doit ê l'autorité contractante de TPSGC pour autorisation.	
1	lient / Nom du client autorisé	Date	Name of Contracting Authority / Nom de	Date
PENWARDEN	Digitally signed by PENIVARDEN ROBERT DN: c=ca, c=pc, ct=ccra-adrc,		·	Digitally signed by Villeneuve,
ROBERT	ou=PERSONNEL, cn=PENWARDEN ROBERT, smidNumbers 2015009231118149 Date: 2019 02.11 15:56:14-05'00'		Villeneuve, Julie 3	Julie 3
Signature			Signature	Date: 2019.02.13 14:12:58 -05'00

### PART 4 - CONTRACTOR SIGNATURE / PARTIE 4 - SIGNATURE DU CONTRACTEUR

MARK GUDHAM	Mail	Fe 6 12, 2019
Name and Title of individual authorized to sign on behalf of the Contractor / Nom et titre de la personne autorisée à signer au nom de l'entrepreneur	Signature	Date

#### REQ#1000339848 - 2018001579

## STATEMENT OF WORK ANNEX A

#### Title:

Canada Border Services Agency requires one (1) Programmer/Software Developer - Specialty in IBM InfoSphere Information Server (IIS) DataStage and QualityStage

#### **Background:**

The Canada Border Services Agency (CBSA) is undertaking an ambitious agenda of change in support of various Beyond the Border initiatives and Border modernization efforts. The Information, Science and Technology Branch (ISTB) support these efforts with oversight and alignment of major capital projects and the associated information technology solutions. Traditional IT functions have been augmented with program directorates that drive business transformation efforts and alignment of business solutions in portfolios for Travelers, Commercial, Common and Corporate projects.

To advance the planning, development and implementation of the Agency's transformation agenda, ISTB is implementing an enterprise approach to the management of its portfolio of systems, projects and services.

In support of the above, the Common Services Portfolio Directorate (CSPD) has undertaken the Master Data Management Service (MDMS), to put in place an Enterprise Building Blocks that can be leveraged by other initiatives including the Entry/Exit (E/E), BioMetrics and UPASS projects. The delivery of the Entry/Exit project is dependent on successful delivery of the foundational components found in MDMS.

#### **Objective:**

Acquire professional services for one Application/Software Developer Level 3 to perform the tasks and deliverables below.

#### Tasks and Deliverables:

The Contractor must provide the professional services to perform the following tasks and deliver the following project deliverables, first in draft format, to be followed by a final product incorporating comments of the CSPD project manager (or their delegates).

The Contractor must perform the following tasks:

- 1. Develop and integrate technical frameworks and strategies, in order to meet the business and application requirements for the:
- 1.1 Commercial Data Quality Service (CDQS); and
- 1.2 Data Preparation and Loading Service (DPLS);
- 1.3 MDM initial load

- 2. Implement IBM DataStage/QualityStage procedures and decision flow best practices for maintaining CDQS, the development of DPLS and ETL jobs for initial loads
- 3. Follow the CBSA project development life cycle with the Identity Management team in engineering a cleansing/standardization solution based on non-functional requirements (e.g. reliability, performance, usability, enhanced portability, high volumes) for CDQS and DPLS;
- 4. Provide analysis to define system functionality using the Unified Modeling Language (UML);
- 5. Lead and facilitate Joint Application Architecture and Design sessions;
- 6. Identify and document IBM DataStage/QualityStage and Extract, Transform and Load (ETL) specific standards relating to programming, documentation and testing, covering program libraries, data dictionaries, naming conventions while conforming to the CBSA's standards and guidelines;
- 7. Identify and document IBM DataStage/QualityStage Jobs that perform Data Cleansing and Data Standardization
- 8. Analyze and impact potential Cleansing/Standardizing releases that could impact CDQS and DPLS.
- Provide advice, recommendations, and mentoring on IBM DataStage/QualityStage Jobs and ETL processes to the Identity Management team;
- 10. Develop and present briefings/presentations related to the IBM DataStage/QualityStage Jobs and ETL process to business clients, IT partners and senior management as required;
- 11. Develop code based upon design and requirements documents for the Identity Management team:
  - 11.1 for the maintenance of CDQS;
  - 11.2 for the development of DPLS
    - 11.2.1 Data cleansing
    - 11.2.2 Data Standardization
  - 11.3 for the development of ETL and Initial Load processes.
  - 11.4 for the integration of Initial Load processes with CBSA automation tools
- 12. Support Quality Assurance activities;
  - 12.1 Fixing functional defects
  - 12.2 Addressing non-functional defects related to ETL jobs, DPLS and CDQS
- 13. Executing and monitoring Initial Load Jobs across all CBSA STAR environment;
- 14. Unit test the code for CDQS, DPLS and ETL prior to releasing it for integration testing;
- 15. Monitor the need for design changes as the MDMS & Entry Exit project progresses;

- 16. Define assumptions and constraints of architecture with regard to physical structure and data collection;
- 17. Develop post-implementation plan for monitoring/tracking design stability;
- 18. Perform and coordinate impact analysis of design and technology changes;
- 19. Advise project leader/manager on planning and controlling projects using an iterative development approach for the CDQS, DPLS and ETL tasks;
- 20. Provide recommendations on enhancing application performance for the cleansing and standardizing components CDQS, DPLS and ETL processes;
- 21. Produce SLMF documentation for design and component development;
- 22. Participate in the reviews for design, coding, detailed level design and system use cases related to DPLS, CDQS and ETL processes.
- 23. Mentor CBSA staff on DPLS and CDQS deliverables to enable the CBSA to provide on-going support and maintenance

#### Deliverables:

- 1. Critical Design Review (CDR) documentation for DPLS including the Architecture Design and Specification (ADS) documents. To be updated in a Word format following the SLMF template as required;
- 2. Interface Control Documentation (ICD) and Web Service Definition Language (WSDL) and XML Schema Definition (XSD) schema for DPLS Data Cleansing and Data Standardization to be updated as required;

Develop Dynamic Risking ETL code to generate PME tuning data set - March 2019

Develop Dynamic Risking ETL code to generate MDM ingestion transactions - May 2019

Develop Dynamic Risking ETL code to create analytical files for mathematical lab consumption and building risking algorithms – June 2019

Develop ICES ETL scripts for MDM initial ingestion – November 2019

Develop ICES data cleansing jobs for MDM ongoing ingestion – October 2019

- 3. Documented Industry best practices and guidance with regards to DPLS (Data Cleansing and Standardization), Initial Load Jobs which includes:
- Data Analysis Report;
- Cleansing & Standardization rule development including the definition of the new rules for Dynamic Risking and ICES integration;
- Testing;
- Support of Data extract;

REQ#1000339848 - 2018001579

- DataStage jobs to load data extract into DML tables;
- DataStage/ QualityStage jobs to run cleanse/standardization;
- Datastage jobs to create XML load file for MDM.

To be delivered in a Word format. By September 30, 2019;

- 4. Status Report outlining:
- · Identification of any issues or concerns;
- Time sheet mapped to deliverables;

To be delivered to the Project Authority, in a MS Word format. Weekly.

All deliverables must be provided in conformance with CBSA's standard desktop operating software which is Microsoft Office Suite (including Word, Excel, Visio and PowerPoint) and Archimate in English.

All deliverables must be provided in a manner that permits integration with CBSA's technical and operational environment as specified by the Project Authority. All deliverables must be in the format of or compatible with the (SLMF) Service Life Cycle Management Framework.

All deliverables must be provided to the Project Authority for their review and acceptance. Should there be problems or issues with the deliverables being presented, the Project Authority will notify the resource of the items that must be modified within five (5) business days of receipt of the deliverable.

#### **Technical Environment:**

As defined in Section 12 of the contract number 47060-152116/002/EL.

#### **Constraints:**

At no time and in no way is CBSA data to be removed from CBSA sites, nor will access to or from the Contractor's IT systems through the use of a session or ling (e.g. VPN) be permitted. The contractor must comply with CBSA internal security policies, directives, standards, and guidelines at all times during the contract.

The CBSA's working hours are between 07:00 to 18:00 Monday through Friday, except for Statutory Holidays where Government Offices are closed. These are core hours and are not representative of the duration of a Contractor's work day.

#### Language:

The proposed Resource will be required to perform the work in English. Every individual proposed in its bid will be fluent in English. The individual proposed must be able to communicate orally and in writing in English without any assistance and with minimal errors.

#### **Reporting Requirements:**

If a TA has been authorized, the resource must provide a weekly status report in MS Word electronically to the Project Authority outlining what work was undertaken during the reporting period, what work is still outstanding, and any issues or concerns that the resource wants to identify to the attention of the Project Authority. The status reports must also be supported by a monthly detailed time sheet mapped to deliverables, using standard template.

#### Location of Work:

The work is expected to be performed on CBSA premises located at 333 North River Road, Ottawa, Ontario, K1A 0L8 or an alternative CBSA location in the National Capital Region. There is no travel requirement under this Task Authorization.

#### **Client Support:**

The contractor will be provided with a CBSA user ID, password, workstation and e-mail address and other materials (supporting documentation) as required. CBSA will provide each resource with a building access pass, network account when working in CBSA premises.

Tasks and Deliverables

PART 1 (completed by the Technical/Project Authority) / PARTE 1 (complété par le Responsable technique / Chargé du projet)

## TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

A. General Information / Informations générales Contract Number / Numéro du contrat : 47060-152116/002/EL Contractor Name / Nom du Contracteur : Donna Conna Inc. Financial Coding / Code Date of Issuance / Date Response required by / Task Authorization (TA) No. / No Commitment No. / No de l'engagement : financier: d'émission: Réponse requise par : de l'autorisation de tâches (AT) : 2018001579 1000339848 192040060/6001/34210 Feb 27, 2018 Mar 2, 2018 B. For Amendments Only / Aux fins de modification seulement Amendment No. / Nº de la modification : Reason for the Amendment / Raison pour la modification: C. TA Requirements / Exigences relatives à l'AT Required Resource(s) / Ressource(s) requise(s) Estimated Level of Linguistic Profile / Profile | Required Level(s) of Security / Effort (days) / Niveau Level / Niveau Category / Catégorie d'effort estimatif linguistique Niveau(x) de sécurité requis (jours) Programmer/Software Developer - Specialty in IBM + InfoSphere Information Server (IIS) DataStage and 3 English / Anglais Secret QualityStage Statement of Work (tasks, deliverables, reports, etc.) / Énoncé des travaux (tâches, livrables, rapports, etc.) Application/Software Specialty in IBM InfoSphere Information Server (IIS) DataStage and QualityStage Number of resources: One Programmer/Software Developer - Specialty in IBM InfoSphere Information Server (IIS) DataStage and QualityStage Title: Programmer / Software Developer – Level 3 – in IBM InfoSphere Information Server (IIS) DataStage and QualityStage Background The Canada Border Services Agency (CBSA) is undertaking an ambitious agenda of change in support of various Beyond the Border initiatives and Border modernization efforts. The Information, Science and Technology Branch (ISTB) support these efforts with oversight and alignment of major capital projects and the associated information technology solutions. Traditional IT functions have been augmented with program directorates that drive business transformation efforts and alignment of business solutions in portfolios for Travelers, Commercial, Common and Corporate projects. To advance the planning, development and implementation of the Agency's transformation agenda, ISTB is implementing an enterprise approach to the management of its portfolio of systems, projects and services. In support of the above, the Common Services Portfolio Directorate (CSPD) has undertaken the Master Data Management Service (MDMS), to put in place an Enterprise Building Blocks that can be leveraged by other initiatives including the Entry/Exit (E/E), BioMetrics and UPASS projects. The delivery of the Entry/Exit project is dependent on successful delivery of the foundational components found in MDMS. Objective To acquire professional services for one Application/Software Developer Level 3 to perform the tasks and deliverables below.

The Contractor must provide the professional services to perform the following tasks and deliver the following project deliverables, first in draft format,

# TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

to be followed by a final product incorporating comments of the CSPD project manager (or their delegates).

#### Tasks

To provide CBSA with technical expertise and guidance and development support, ongoing until the end of the TA, on the following:

The Contractor must perform the following tasks:

- Develop and integrate technical frameworks and strategies, in order to meet the business and application requirements for the:
- 1. Commercial Data Quality Service (CDQS); and
- 2. Data Preparation and Loading Service (DPLS);
- 3. MDM initial load
- Implement IBM DataStage/QualityStage procedures and decision flows best practices for maintaining CDQS, the development of DPLS and ETL jobs for initial loads;
- Follow the CBSA project development life cycle with the Identity Management team in engineering a cleansing/standardization solution based on non-functional requirements (e.g. reliability,
- performance, usability, enhanced portability, high volumes) for CDQS and DPLS;
- Provide analysis to define system functionality using the Unified Modeling Language (UML);
- · Lead and facilitate Joint Application Architecture and Design sessions;
- Identify and document IBM DataStage/QualityStage and Extract, Transform and Load (ETL) specific standards relating to programming, documentation and testing, covering program libraries, data dictionaries, naming conventions while conforming to the CBSA's standards and quidelines;
- · Identify and document IBM DataStage/QualityStage Jobs that perform Data Cleansing and Data Standardization
- Analyze and impact potential Cleansing/Standardizing releases that could impact CDQS and DPLS.
- · Provide advice, recommendations, and mentoring on IBM DataStage/QualityStage Jobs and ETL processes to the Identity Management team;
- Develop and present briefings/presentations related to the IBM DataStage/QualityStage Jobs and ETL process to business clients, IT partners and senior management as required;
- Develop code based upon design and requirements documents for the Identity Management team:
- 1. for the maintenance of CDQS;
- 2, for the development of DPLS
- 3. Data Cleansing;
- 4. Data Standardization;
- 5, for the development of ETL and Initial Load processes;
- 6. for the integration of Initial Load processes with CBSA automation tools;
- Support Quality Assurance activities;
- 1. Fixing functional defects:
- 2. Addressing non-functional defects related to ETL jobs, DPLS and CDQS;
- Executing and monitoring Initial Load Jobs across all CBSA STAR environment;
- Unit test the code for CDQS, DPLS and ETL prior to releasing it for integration testing;
- Monitor the need for design changes as the MDMS & Entry Exit project progresses;
- Define assumptions and constraints of architecture with regard to physical structure and data collection;
- Develop post-implementation plan for monitoring/tracking design stability;
- Perform and coordinate impact analysis of design and technology changes;
- · Advise project leader/manager on planning and controlling projects using an iterative development approach for the CDQS, DPLS and ETL tasks;
- · Provide recommendations on enhancing application performance for the cleansing and standardizing components CDQS, DPLS and ETL processes;
- Produce SLMF documentation for design and component development;
- Participate in the reviews for design, coding, detailed level design and system use cases related to DPLS, CDQS and ETL processes.

#### Deliverables

The Contractor shall deliver the following:

- Feedback report on the DPLS and Initial Load development plan. To be delivered in email or word format. Within 2 weeks of start of TA;
- Critical Design Review (CDR) documentation for DPLS including the Architecture Design and Specification (ADS) documents. To be delivered in a Word format following the SLMF template. By March 30, 2018;
- Interface Control Documentation (ICD) and Web Service Definition Language (WSDL) and XML Schema Definition (XSD) schema for DPLS Data Cleansing and Data Standardization. By April 06, 2018;
- Documented Industry best practices and guidance with regards to DPLS (Data Cleansing and Standardization), Initial Load Jobs which includes:
- Data Analysis Report;
- Cleansing & Standardization rule development including the definition of the rules;
- Testing;
- Support of Data extract;
- DataStage jobs to load data extract into DML tables;

## TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

- DataStage/QualityStage jobs to run cleanse/standardization;
- · Datastage jobs to create XML load file for MDM.
- To be delivered in a Word format. By September 30, 2018;
- Develop DPLS application and Initial Load Jobs ready for use (RFU) and migrate to the transition environment for User Acceptance testing. By May 31, 2018:
- · Bi-Weekly Status Report outlining the Identification of any issues or concerns;

All deliverables must be provided in conformance with CBSA's standard desktop operating software which is Microsoft Office Suite (including Word, Excel, Visio and PowerPoint) and Archimate in English.

All deliverables must be provided in a manner that permits integration with CBSA's technical and operational environment as specified by the Project Authority. All deliverables must be in the format of or compatible with the (SLMF) Service Life Cycle Management Framework.

All deliverables must be provided to the Project Authority for their review and acceptance. Should there be problems or issues with the deliverables being presented, the Project Authority will notify the resource of the items that must be modified within five (5) business days of receipt of the deliverable.

Technical Environment

As defined in Section 12 of the contract number 47060-152116/002/EL.

Constraints

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Language

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Reporting Requirements

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Location of Work

The work is expected to be performed on CBSA premises located at 333 North River Road, Ottawa, Ontario, K1A 0L8 or an alternative CBSA location in the National Capital Region. There is no travel requirement under this Task Authorization.

Client Support

The contractor will be provided with a CBSA user ID, password, workstation and e-mail address and other materials (supporting documentation) as required. CBSA will provide each resource with a building access pass, network account when working in CBSA premises.

Period of Services / Période de service:									
Initial Start Date / Date de début initiale :	Mar 5, 2018	Initial End Date / Date de fin initiale :	Dec 31, 2018						
Extented End Date (See Reason for the Amendment) / Date de fin prolongée (voir Raison pour la modification) :									
Option To Extend Initial End Date / Option pour prolonger la date de fin initiale									
Travel Requirement(s) / Exigence(s) de voyage :	N/A								
Work Location(s) / Lieu(x) de travail :	333 North River Road, Ottawa Ontario K1A 0L8								

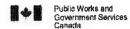


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Name / Nom		Category / Catégorie		Level / Niveau	vel / Linguistic Profile /		Level of Security / Niveau de sécurité		PWGSC Security File No. / Nº du dossier de sécurité TPSGC	***************************************
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3. Estimated Cost / Coût	estimatif									
Category / Catég	gorie	Level / Niveau		m Rate / <sup>-</sup> ournalier	Taux	(days) / N	Level of Effort liveau d'effort atif (jours)	Total Cos estimatif		***************************************
IBM InfoSphere Information	ner/Software Developer - Specialty IfoSphere Information Server (IIS) 3 ataStage and QualityStage				\$170,000.00		- Company of the Comp			
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	Total	Estimated Trav	el and Livin	g Cost / C	oût tota	l estimatif de	voyage et de vie		\$0.00	
Taxe % applied / % de	taxes appliquées	13.000		<u></u>	Applic	able Taxes / Taxes	axes applicables	\$:	22,100.00	
	Ĭ.	**************************************		Tota	al Estima	ted Cost / Coí	ût total estimatif	\$1	92,100.00	
PART 3 - TA APPROV	ALBY CANA	DA / PART	'IE 3 - AP	PROB <i>A</i>	ITION	DE L'AT P	AR LE CANA	IDA .		
y signing this TA, the authorized clie ertify(ies) that the content of this TA				En app	oosant sa si e(nt) que le	gnature sur l'AT, le contenu de cette	le client autorisé et/or AT est conforme aux	u l'autorité cor conditions di	ntractante de TPSGC u contrat.	
ne client's authorization limit is \$300 ncluding GST/HST) is in excess of thi irwarded to the PWGSC Contracting	s limit, the TA must be :	signed by the auth		nd (inclua	ant la TPS/T		e limite, l'AT doit être		e l'AT et ses modificatio client autorisé et transr	
Robert Pendarde	u client autorisé Da	Feb 23	<u>//8</u>		of Contract ité contract	ting Authority / No tante	om de	Date	***************************************	
Signature Anne	wohn			Signati	ure		MANAGES AND CONTROL OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF T			
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Mark Calaba Name and Title of individual authori de la personne autorisée à signer au	-W	of the Contractor / I	CCLHOG Nom et titre	≥ . Signa	The Cartains	ll		FOL.	272018	>
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FORMULAIRE D'AUTORISATION DE TACHES

A. General Information / Inform	nations généra	<u>ales</u>					
Contract Number / Numéro du contr	rat: 47060-152	116/002/EL					
Contractor Name / Nom du Contract	teur : Donna Cor	nna Inc.					
Task Authorization (TA) No. / Nº de l'autorisation de tâches (AT) :	Commitment No l'engagement :		Financial Coding / Code financier :	Date of Issuance / £ d'émission :	•	Response required by / Réponse requise par :	
2018001614	1000337306	192040060/2001/16100 February 27, 2018 March 01, 2018					
3. For Amendments Only / Aux	fins de modif	cation seu	ement				
Amendment No. / Nº de la modificat	tion: 1						
Reason for the Amendment / Raison	n pour la modific	ation:				**************************************	
Extend the end date to August 31, 2	018 and add	days to the T	٩.			*	
C. TA Requirements / Exigence	s relatives à l'/	<u>VI</u>					
Required Resource(s) / Ressource(s)	requise(s)	g					
Category / Catégorie	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Linguistic Profile / Profile linguistique		vel(s) of Security / e sécurité requis			
Programmer/Software Developer - S (probabilistic Matching Englne) algorithm developme	- Matching	3		English / Anglais	Secret		
Statement of Work (tasks, deliverabl	les, reports, etc.)	/ Énoncé des	travaux (tâches, livrable:	s, rapports, etc.)			
Programmer/Software Developer - S	Specialty in PME	(Probabilistic	Matching Engine) - Matc	ching algorithm developm	ent		
Background		*					
The Canada Border Services Agency Border modernization efforts. The Ir capital projects and the associated i drive business transformation effort	nformation, Scier information tech	nce and Techronology soluti	nology Branch (ISTB) sup ons. Traditional IT functio	port these efforts with ove ons have been augmented	rsight and alig	gnment of major n directorates that	
To advance the planning, developm the management of its portfolio of s				on agenda, ISTB is implem	enting an ent	erprise approach t	
In support of the above, the Commo place an Enterprise Building Blocks to of the Entry/Exit project is depender	that can be lever	aged by othe	r initiatives including the	Entry/Exit (E/E), BioMetric			
Tasks and Deliverables				A.			
The Contractor must provide the pro- to be followed by a final product inc identify the resources and the respe	orporating comi	ments of the	CSPD project manager (c	or their delegates). It is the	Contractor's r	esponsibility to	
Tasks				•			



## TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

The resource will provide CBSA with technical expertise and guidance on the following topics:

- Perform analysis of Business User Cases (BUC) and System User Cases (SUC) and create new SUCs as required
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- Lead business requirement gathering on party matching scenarios;
- Document the processes and steps needed to build, administer and support all tests, in development and production environments.
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- Assist in the design and implementation of IBM MDM server business rule configurations including PME matching rules, duplicate suspect processing rules, data survivorship rules, business validation rules;
- Customize and fine tune MDM PME matching algorithms based on business requirements on an iterative basis. Each iteration is to be reviewed with the Project Authority and subject to their approval;
- Review matching result with business team;
- Support MDM initial load and incremental, iterative MDM process;
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#### Deliverables

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- Provide detailed design documents for all customized code and configurations for IBM InfoSphere MDM server related solution components due May 31, 2018:
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- Configure PME based on iterative tuning requirements. Ongoing to end of TA.
- Provide guidance and assistance in performance tuning, load balancing and optimization strategies for MDM Server environment. Ongoing to end of TA:
- Perform knowledge transfer to CBSA application support team, Until end of the TA.

All deliverables must be provided in conformance with CBSA's standard desktop operating software which is Microsoft Office Suite (including Word, Excel, Visio and PowerPoint) and Archimate in English.

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As defined in Section 12 of the contract number 47060-152116/002/EL.

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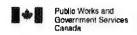
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If a TA has been authorized, the resource must provide a weekly status report in MS Word electronically to the Project Authority outlining what work was undertaken during the reporting period, what work is still outstanding, and any issues or concerns that the resource wants to identify to the attention of the Project Authority. The status reports must also be supported by a monthly detailed time sheet mapped to deliverables, using standard

template.										
Location of Work							-			
The work is expected to be performed on CBSA premises located at 333 North River Road, Ottawa, Ontario, K1A 0L8 or an alternative CBSA location in the National Capital Region. There is no travel requirement under this Task Authorization.										
Client Support										
	ided with a CBSA user ID, pa each resource with a buildi					ocumentation) as				
Period of Services / Période de service:										
Initial Start Date / Date de d	Initial Start Date / Date de début initiale : Jan 8, 2018 Initial End Date / Date de fin initiale : Apr 30, 2018									
Extented End Date (See Rea	son for the Amendment) / [	Date de fin prolon	gée (voir	Raison pour la modific	cation):	g 31, 2018				
Option To Extend Initial	End Date / Option pour pro	longer la date de	fin initial	e						
Travel Requirement(s) / Exig	gence(s) de voyage :	N/A								
Work Location(s) / Lieu(x) d	e travail :	333 North River Capital Region.	Road, Ot	tawa, Ontario K1A 0L8	or alternate CBSA locatio	n in the National				
PART 2 (completed by the Contro	ctor and/or the Technical/Project Author	<sub>lyi</sub> / PARTIE 2	(complies p	r' le Contractaus et/ou le Respon	sahla technique / Charpé du grojeti					
A. Contractor Resource Note: once approved, only the following	(s) / Ressource(s) du Cor esources may provide services under this		ouvée, seules l	es ressources suivantes peuvent	fournir des services sous la présente A'					
Name / Nom	Category / Cal	Category / Catégorie		Linguistic Profile / Profile linguistique	Level of Security / Niveau de sécurité	PWGSC Security File No. / N° du dossier de sécurité TPSGC	***************************************			
	Programmer/Software Developer - Specialty in pME (probabilistic Matching Engine) - Matching algorithm development			English / Anglais	Secret		[+] [:-]			
B. Estimated Cost / Coû	<u>t estimatif</u>		***************************************	*·····································						



Category / Catégorie	Level / Niveau	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Cost / Coût estimatif
prammer/Software Developer - Specialty pME (probabilistic Matching Engine) - Matching algorithm development	3			\$228,000.00
	\$228,000.00			
Total E	stimated Trav	el and Living Cost / Coût tota	l estimatif de voyage et de vie	\$0.00
Taxe % applied / % de taxes appliquées	13.000	Applic	\$29,640.00	
<u> </u>	***************************************	Total Estima	ited Cost / Coût total estimatif	\$257,640.00

			Estimated Cost/ Codi estimati	7220,000.00
Total E	\$0.00			
Taxe % applied / % de taxes appliquées	13.000		Applicable Taxes / Taxes applicables	\$29,640.00
			Total Estimated Cost / Coût total estimati	\$257,640.00
PART 3 - TA APPROVAL BY CANAL	DA / PART	IE 3 - APPI	ROBATION DE L'AT PAR LE CANA	
By signing this TA, the authorized client authority and/or the certify(ies) that the content of this TA is in accordance with the			En apposant sa signature sur l'AT, le client autorisé et/c atteste(nt) que le contenu de cette AT est conforme au	
The client's authorization limit is \$300,000.00. When the validation of the state o	signed by the auth	amendments corized client and	La limite d'autorisation du client est \$300,000,00 . Lors (incluant la TPS/TVH) dépasse cette limite, l'AT doit être l'autorité contractante de TPSGC pour autorisation.	
Name of Authorized Client / Nom du client autorisé  Da  Autori Ma	te		Name of Contracting Authority / Nom de l'autorité contractante	Date
Signature			Signature	
PART 4 - CONTRACTOR SIGNATUI	RE / PARTI	E 4 - SIGN	ATURE DU CONTRACTEUR	
Mair Sundaland Pril &	kec		MAD	march 27/18
Name and Title of individual authorized to sign on behalf o de la personne autorisée à signer au nom de l'entrepreneur		Nom et titre	Hamilton	Date

Signature	Signature	
PART 4 - CONTRACTOR SIGNATURE / PARTIE 4 - SIGN	NATURE DU CONTRACTEUR	
Plair Sundarland Aza Exec Name and Title of individual authorized to sign on behalf of the Contractor / Nomet titre de la personne autorisée à signer au nom de l'entrepreneur	Manateria	March 27/18



Tasks

PART 1 (completed by the Technical/Project)  A. General Information / Infor						
Contract Number / Numéro du con		116/002/EL		***************************************		
						30000000000000000000000000000000000000
Contractor Name / Nom du Contrac	teur : Donna Cor	nna Inc.				······································
Task Authorization (TA) No. / No de l'autorisation de tâches (AT) : l'engagement :			nancial Coding / Code nancier :	Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issuance / Date of Issua	ate Response required b Réponse requise par	
2018001614	1000337306		92040060/2001/16100	August 31, 2018	August 31, 2018	
B. For Amendments Only / Au	x fins de modifi	ication seule	ment			
Amendment No. / Nº de la modifica	ation: 2					
Reason for the Amendment / Raiso	n pour la modific	ation :				
Extend the end date to February 23	3, 2019 with no ex	tra funds to th	e TA.	***************************************	384	
C. TA Requirements / Exigence	es relatives à l'A	<u>AT</u>				
Required Resource(s) / Ressource(s)	) requise(s)	*				
Category / Catégorie		Level / Niveau	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Linguistic Profile / Profile linguistique	Required Level(s) of Securit Niveau(x) de sécurité requis	
Programmer/Software Developer - (probabilistic Matching Engine algorithm developme	e) - Matching	3		English / Anglais	Secret	+
Statement of Work (tasks, deliverab	oles, reports, etc.)	/Énoncé des t	ravaux (tâches, livrables	s, rapports, etc.)		***************************************
Programmer/Software Developer -	Specialty in PME	(Probabilistic N	Matching Engine) - Matc	thing algorithm developme	ent	
Background						
The Canada Border Services Agenc Border modernization efforts. The I capital projects and the associated drive business transformation effor	Information, Scien information tech	nce and Techno nology solution	ology Branch (ISTB) supp ns. Traditional IT functio	port these efforts with over ons have been augmented	sight and alignment of majo with program directorates th	or nat
To advance the planning, developr the management of its portfolio of			Agency's transformation	on agenda, ISTB is impleme	enting an enterprise approac	h to
In support of the above, the Comm place an Enterprise Building Blocks of the Entry/Exit project is depende	that can be levera	aged by other	initiatives including the	Entry/Exit (E/E), BioMetrics		
Tasks and Deliverables						
The Contractor must provide the put to be followed by a final product in identify the resources and the resources.	corporating comr	ments of the C	SPD project manager (o	r their delegates). It is the (	Contractor's responsibility to	

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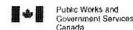
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F		<u>uń</u>					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
Location of Work											
The work is expected to be performed on CBSA premises located at 333 North River Road, Ottawa, Ontario, K1A 0L8 or an alternative CBSA location in the National Capital Region. There is no travel requirement under this Task Authorization.											
Client Support											
The contractor will be provided with a CBSA user ID, password, workstation and e-mail address and other materials (supporting documentation) as required. CBSA will provide each resource with a building access pass, network account when working in CBSA premises.											
• Provide System Use Cases, s	• Provide System Use Cases, system requirements for PME due January 31, 2018;										
Period of Services / Période	de service:					***************************************					
Initial Start Date / Date de dél	out initiale :	Jan 8, 2018	Initia	al End Date / Date de f	in initiale : Ap	r 30, 2018					
Extented End Date (See Reaso	on for the Amendm	ent) / Date de fin prolon	gée (voir	Raison pour la modifi	cation): Fe	b 23, 2019					
Option To Extend Initial E	nd Date / Option po	our prolonger la date de	fin initial	e							
Travel Requirement(s) / Exige	nce(s) de voyage :	N/A									
Work Location(s) / Lieu(x) de t	ravail :	333 North River Capital Region.	Road, Ot	tawa, Ontario K1A 0L8	or alternate CBSA location	n in the National					
PART 2 (completed by the Contracto	r and/or the Technical/Projec	ct Authority) / PARTIE 2	(complété p	ar le Contracteur et/où le Respon	sable technique / Chargé du projet)		Louisian				
A. Contractor Resource(s Note: once approved, only the following reso		***************************************	ouvée, seules l	es ressources suivantes peuvent	fournir des services sous la présente AT		***************************************				
Name / Nom	Category / Catégorie		Level / Niveau	Linguistic Profile / Profile linguistique	Level of Security / Niveau de sécurité	PWGSC Security File No. / N° du dossier de sécurité TPSGC					
	Programmer/Software Developer - Specialty in pME (probabilistic Matching Engine) - Matching algorithm development		3	English / Anglais	Secret		+				
B. Estimated Cost / Coût e	stimatif										



Category / Catégorie	Level / Niveau	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Cost / Coût estimatif				
+ grammer/Software Developer - Specialty pME (probabilistic Matching Engine) - Matching algorithm development	3			\$228,000.00				
	\$228,000.00							
Total	Total Estimated Travel and Living Cost / Coût total estimatif de voyage et de vie							
Taxe % applied / % de taxes appliquées	13.000	Applic	\$29,640.00					
	Total Estimated Cost / Coût total estimatif							

By signing this TA, the authorized client authority and/or the PWGSC Contracting Authority certify(ies) that the content of this TA is in accordance with the conditions of the Contract.	En apposant sa signature sur l'AT, le client autorisé et/ou l'autorité contractante de TPSGC atteste(nt) que le contenu de cette AT est conforme aux conditions du contrat.			
The client's authorization limit is \$300,000.00 . When the value of a TA and its amendments (including GST/HST) is in excess of this limit, the TA must be signed by the authorized client and forwarded to the PWGSC Contracting Authority for authorization.	La limite d'autorisation du client est \$300,000.00 (incluant la TPS/TVH) dépasse cette limite, l'AT de l'autorité contractante de TPSGC pour autorisation	it être signée par le client autorisé et transmise à		
Name of Authorized Client / Nom du client autorisé Date	Name of Contracting Authority / Nom de l'autorité contractante	Date		
Signature	Signature	-		

### PART 4 - CONTRACTOR SIGNATURE / PARTIE 4 - SIGNATURE DU CONTRACTEUR

MARK COLDHAM Mall		08/31/2018
Name and Title of individual authorized to sign on behalf of the Contractor / Nom et titre	Signature	Date
de la personne autorisée à signer au nom de l'entrepreneur		

# TASK AUTHORIZATION FORM

## FORMULAIRE D'AUTORISATION DE TÂCHES

PART I COMMENT OF THE PART OF THE PART	سروملوسي ال	N Magonial de recoslope / Charg	f du projet)					
A. General Information / Informations génér	ales		****	***				
Contract Number / Numéro du contrat : 47060-152	2116/002/EL							
Contractor Name / Nom du Contractéur : Donna Co	nna Inc.	***						
Task Authorization (TA) No./ N° Commitment No. / N° de de l'autorisation de tâches (AT): l'engagement: financier: Date of Issuance / Date of Issua								
2018001614 1000337306								
B. For Amendments Only / Aux fins de modif	ication seule	ment						
Amendment No. / Nº de la modification : 3			-	and the state of t				
Reason for the Amendment / Raison pour la modific	ation :	***************************************						
Extend the date to February 23, 2020 with days	additional leve	of effort	<del>e y yn gere e kom ddade de e ee e</del> e ee e ee e e e e e e e e e					
L THE CONTRACTOR OF THE CONTRA				4940				
C. TA Requirements / Exigences relatives à l'/	AI							
lequired Resource(s) / Ressource(s) requise(s)				Y I				
Category / Catégorie	Level / Niveau	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Linguistic Profile / Profile linguistique	Required Level(s) of Security / Niveau(x) de sécurité requis				
Programmer / Software Developer - Speciality in PME (probabilistic Matching Engine) Matching algorithm development	3		English / Anglais	Secret				
Statement of Work (tasks, deliverables, reports, etc.)	/ Énoncé des tr	avaux (táches, livrables	, rapports, etc.)					
Background  The Canada Border Services Agency (CBSA) is underly Border modernization efforts. The Information, Scient capital projects and the associated information technique business transformation efforts and alignment. To advance the planning, development and implement management of its portfolio of systems, projects. In support of the above, the Common Services Portfolio.	nce and Techno nology solution of business sol entation of the and services. olio Directorate	logy Branch (ISTB) supplies. Traditional IT functional IT function	port these efforts with over ons have been augmented Travelers, Commercial, Cor on agenda, ISTB is impleme on the Master Data Manager	sight and alignment of major with program directorates that nmon and Corporate projects, enting an enterprise approach to ment Service (MDMS), to put in				
place an Enterprise Building Blocks that can be lever of the Entry/Exit project is dependent on successful Tasks and Deliverables				and UPASS projects. The delivery				
The Contractor must provide the professional service to be followed by a final product incorporating complete the resources and the respective level of efforts.	ments of the CS	iPD project manager (o	r their delegates). It is the (	Contractor's responsibility to				
Tasks				,				
The resource will provide CBSA with technical experi	ise and guidan	ce on the following top	DÎCS:					

Travalue colores of

### TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

Perform analysis of Business User Cases (BUC) and System User Cases (SUC) and create new SUCs as required

- Review of MDM detail design document in order to confirm or identify implementation approach;
- Lead business requirement gathering on party matching scenarios;
- Document the processes and steps needed to build, administer and support all tests, in development and production environments.
- Provide weekly scheduled knowledge transfer sessions to CBSA application support team;
- · Assist in the design and implementation of IBM MDM server business rule configurations including PME matching rules, duplicate suspect processing rules, data survivorship rules, business validation rules;
- Customize and fine tune MDM PME matching algorithms based on business requirements on an Iterative basis. Each iteration is to be reviewed with the Project Authority and subject to their approval;
- Review matching result with business team;
- Support MDM initial load and Incremental, iterative MDM process;
- Provide MDM PME matching algorithm with CBSA data source to MDM data mapping document;
- Develop High level design Document based on SUCs and iterative PMT truing rules in accordance with CBSA SLMF.

#### Deliverables

- Update High Level Design document for PME rules, duplicate suspect processing and data survivorship rules as required:
- · Provide Application code, including customizations based on SUCs and iterative tuning rules ongoing until the end of the contract;
- Configure PME based on iterative tuning requirements. Quarterly until the end of the contract.
- · Provide guidance and assistance in performance tuning, load balancing and optimization strategies for MDM Server environment. Ongoing until the end of the contract:
- Perform knowledge transfer to CBSA application support team. Ongoing until the end of the contract:

All deliverables must be provided in conformance with CBSA's standard desktop operating software which is Microsoft Office Suite (including Word, Excel, Visio and PowerPoint) and Archimate in English.

All deliverables must be provided in a manner that permits integration with CBSA's technical and operational environment as specified by the Project Authority. All deliverables must be in the format of or compatible with the (SLMF) Service Life Cycle Management Framework,

All deliverables must be provided to the Project Authority for their review and acceptance. Should there be problems or issues with the deliverables being presented, the Project Authority will notify the resource of the items that must be modified within five (5) business days of receipt of the deliverable.

#### Technical Environment

As defined in Section 12 of the contract number 47060-152116/002/EL.

#### Constraints

At no time and in no way is CBSA data to be removed from CBSA sites, nor will access to or from the Contractor's IT systems through the use of a session or ling (e.g. VPN) be permitted. The contractor must comply with CBSA internal security policies, directives, standards, and guidelines at all times during the contract.

The CBSA's working hours are between 07:00 to 18:00 Monday through Friday, except for Statutory Holidays where Government Offices are closed. These are core hours and are not representative of the duration of a Contractor's work day.

#### Language

The proposed Resource will be required to perform the work in English. Every individual proposed in its bid will be fluent in English, The Individual proposed must be able to communicate orally and in writing in English without any assistance and with minimal errors.

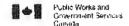
#### Reporting Requirements

If a TA has been authorized, the resource must provide a weekly status report in MS Word electronically to the Project Authority outlining what work was undertaken during the reporting period, what work is still outstanding, and any issues or concerns that the resource wants to identify to the attention of the Project Authority. The status reports must also be supported by a monthly detailed time sheet mapped to deliverables, using standard template.

#### Location of Work

The work is expected to be performed on CBSA premises located at 333 North River Road, Ottawa, Ontario, K1A OL8 or an alternative CBSA location in

the National Capital Region. Ther	e is no travel	requirem	ent under this T	ask Auth	orization	l.		<del>/</del>		***********
Client Support										
The contractor will be provided y required, CBSA will provide each	vith a CBSA us resource with	ser ID, pa a buildir	ssword, worksta ng access pass, r	ition and network a	e-mail ac ccount v	ddress and otl when working	ner materials (su in CBSA premis	pporting d es.	ocumentation) as	
Period of Services / Période de s	iervice:	***************************************		***************************************			400000000000000000000000000000000000000			**********
nitial Start Date / Date de début i	nitiale :	Jan 8,	2018	Initi	al End D	ate / Date de	fin initiale:	lan.	r 30, 2018	<del>,</del>
		I							7 30, 2016	
xtented End Date (See Reason fo						pour la modifi	ication) :	Feb	23, 2020	
Option To Extend Initial End D	ate / Option (	our prol	onger la date de	e fin initia	le					بينيد
ravel Requirement(s) / Exigence(	s) de voyage :		N/A	*****************************	Marain and Calendar American Space again					
/ork Location(s) / Lieu(x) de trava	il:		333 N. River Ro	ad, Ottaw	a, ON K1	A OL8 or alter	nate CBSA locat	lon in the N	VRC .	~
			/ PARTICI	والمعارضاة	ini.	نام المالية المالية المالية	رين المراجعة	á du projet)	,	
. Contractor Resource(s) / Rote: ancw approved, only the following rejources to	essource(s) may provide jervice	du Cons s under this T	tracteur A. / Nota : une fois appr	ánises' zénjes j	les ressource	s šurvantes peuvent	fûumit des services sou	s la prosente A1.		
Name / Nom	Categ	ory / Cate	gorie!			Level of Securit de sécurité	ty / Niveau	PWGSC Security File No. / Nº du dossier de sécurité TPSGC		
	Speciality is latching Engir	n PME (pr	ning algorithm	3	Engli:	sh / Anglais	Secret			
. Estimated Cost / Coût estin	natif							•		1
Category / Catégorie		Level / Niveau	1	m Rate / T urnalier	āux	(days) / N	Level of Effort veau d'effort rtif (jours)	Total Cos estimatif	t / Coût	
Programmer / Software Development   Programmer / Software Development   Programmer / Programmer	latching	3					\$418,000.00		/	
					E:	stimated Cost	/ Coût estimatif	\$4	18,000.00	
	Total Es	timated 1	ravel and Living	3 Cost / Co	oùt total	estimațif de v	oyage et de vie		\$0.00	
Taxe % applied / % de taxes appliquées 13.000 Applicable Taxes / Taxes applicables							\$:	54,340.00		
Total Estimated Cost / Coût total estimati							it total estimatif	\$4	72,340.00	
UTE TANNEDVALE		1 / WA		anni k	<del>h</del> au					******



### TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

By signing this TA, the authorized client authority and/or the PWGSC Contracting Authority certifyies) that the content of this TA is in accordance with the conditions of the Contract.

The client's authorization limit is \$300,000,000. When the value of a TA and its amendments (including GST/HST) is in excess of this limit, the TA must be signed by the authorized client and forwarded to the PWGSC Contracting Authority for authorization.

DAKOUZE

Signature

En apposant sa signature sur l'AT, le client autorisé et/ou l'autorité contractante de TPSGC atteste(nt) que le contenu de cette AT est conforme aux conditions du contrat.

La limite d'autorisation du client est \$300,000.00 . Lorsque la valeur de l'AT et ses modifications (incluant la TPS/TVH) dépasse cette limite, l'AT doit être signée par le client autorisé et transmise à l'autorité contractante de TPSGC pour autorisation.

Silvana Mansour for Julie Villeneuve

Name of Contracting Authority / Nom de

Mansour, Silvana Date: 2019.02.06 13:11:00 -05'00'

Digitally signed by Mansour, Silvana

PART 4 - CONTRACTOR SIGNATURE / PARTIE 4 - SIGNATURE DU CONTRACTEUR

(OUDHAM)

ACCOUNT CYEC

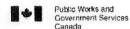
Name and Title of individual authorized to sign on behalf of the Contractor / Nom et titre de la personne autorisée à signer au nom de l'entrepreneur

Public Works and Government Services Services gouvernementaux Canada

### **TASK AUTHORIZATION FORM** FORMULAIRE D'AUTORISATION DE TÂCHES

PART 1 (completed by the Technical/Project Authority) / PARTIE 1 (complete parte Responsable technique / Charge du projet)

A. General Information / Informations générales								
Contract Number / Numéro du contrat : 47060-152116/002/EL								
Contractor Name / Nom du Contracteur : Donna Conna Inc.								
Task Authorization (TA) No. / N° Commitment No. / N° de l'autorisation de tâches (AT) : l'engagement : financier : Date of Issuance / Date of Issu								
2018001614 1000337306 192040060/2001/16100 January 03, 2018 January 05, 2018								
B. For Amendments Only / Aux fins de modification seulement								
Amendment No. / № de la modification :								
Reason for the Amendment / Raison pour la modific	ation :							
C. TA Requirements / Exigences relatives à l'A	<u>//                                   </u>							
Required Resource(s) / Ressource(s) requise(s)	•	**************************************						
Category / Catégorie	Category / Catégorie  Level / Niveau d'effort estimatif (jours)  Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)  Linguistic Profile / Profile Required Level(s) of Security linguistique Niveau(x) de sécurité requis							
Programmer/Software Developer - Specialty in pME (probabilistic Matching Engine) - Matching algorithm development	3		English / Anglais	Secret -				
Statement of Work (tasks, deliverables, reports, etc.)	/ Énoncé des tr	avaux (tâches, livrables	, rapports, etc.)					
Programmer/Software Developer - Specialty in PME	(Probabilistic M	latching Engine) - Matc	hing algorithm developme	ent				
Background								
The Canada Border Services Agency (CBSA) is undertaking an ambitious agenda of change in support of various Beyond the Border initiatives and Border modernization efforts. The Information, Science and Technology Branch (ISTB) support these efforts with oversight and alignment of major capital projects and the associated information technology solutions. Traditional IT functions have been augmented with program directorates that drive business transformation efforts and alignment of business solutions in portfolios for Travelers, Commercial, Common and Corporate projects.								
To advance the planning, development and implementation of the Agency's transformation agenda, ISTB is implementing an enterprise approach to the management of its portfolio of systems, projects and services.								
In support of the above, the Common Services Portfolio Directorate (CSPD) has undertaken the Master Data Management Service (MDMS), to put in place an Enterprise Building Blocks that can be leveraged by other initiatives including the Entry/Exit (E/E), BioMetrics and UPASS projects. The delivery of the Entry/Exit project is dependent on successful delivery of the foundational components found in MDMS.								
Tasks and Deliverables								
The Contractor must provide the professional services to perform the following tasks and deliver the following project deliverables, first in draft format, to be followed by a final product incorporating comments of the CSPD project manager (or their delegates). It is the Contractor's responsibility to identify the resources and the respective level of effort required to perform the following tasks and complete the following deliverables.								



## TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

#### lasks

The resource will provide CBSA with technical expertise and guidance on the following topics:

- Perform analysis of Business User Cases (BUC) and System User Cases (SUC) and create new SUCs as required
- · Review of MDM detail design document in order to confirm or identify implementation approach;
- Lead business requirement gathering on party matching scenarios;
- \* Document the processes and steps needed to build, administer and support all tests, in development and production environments.
- Provide weekly scheduled knowledge transfer sessions to CBSA application support team;
- Assist in the design and implementation of IBM MDM server business rule configurations including PME matching rules, duplicate suspect processing rules, data survivorship rules, business validation rules;
- Customize and fine tune MDM PME matching algorithms based on business requirements on an iterative basis. Each iteration is to be reviewed with the Project Authority and subject to their approval;
- Review matching result with business team;
- Support MDM initial load and incremental, iterative MDM process;
- Provide MDM PME matching algorithm with CBSA data source to MDM data mapping document;
- Develop High level design Document based on SUCs and iterative PMT truing rules in accordance with CBSA SLMF.

#### Deliverables

- Provide System Use Cases, system requirements for PME due August 31, 2017;
- Provide detailed design documents for all customized code and configurations for IBM InfoSphere MDM server related solution components due October 31, 2017;
- Provide High Level Design document for PME rules, duplicate suspect processing and data survivorship rules due August 31, 2017;
- · Provide Application code, including customizations based on SUCs and iterative tuning rules Due October 31, 2017;
- Configure PME based on iterative tuning requirements. Ongoing to March 31, 2018;
- Provide guidance and assistance in performance tuning, load balancing and optimization strategies for MDM Server environment. Ongoing to March 31, 2018
- Perform knowledge transfer to CBSA application support team. Until end of the TA.

All deliverables must be provided in conformance with CBSA's standard desktop operating software which is Microsoft Office Suite (including Word, Excel, Visio and PowerPoint) and Archimate in English.

All deliverables must be provided in a manner that permits integration with CBSA's technical and operational environment as specified by the Project Authority. All deliverables must be in the format of or compatible with the (SLMF) Service Life Cycle Management Framework.

All deliverables must be provided to the Project Authority for their review and acceptance. Should there be problems or issues with the deliverables being presented, the Project Authority will notify the resource of the items that must be modified within five (5) business days of receipt of the deliverable.

#### Technical Environment

As defined in Section 12 of the contract number 47060-152116/002/EL.

#### Constraints

At no time and in no way is CBSA data to be removed from CBSA sites, nor will access to or from the Contractor's IT systems through the use of a session or ling (e.g. VPN) be permitted. The contractor must comply with CBSA internal security policies, directives, standards, and guidelines at all times during the contract.

The CBSA's working hours are between 07:00 to 18:00 Monday through Friday, except for Statutory Holidays where Government Offices are closed. These are core hours and are not representative of the duration of a Contractor's work day.

#### Language

The proposed Resource will be required to perform the work in English. Every individual proposed in its bid will be fluent in English. The individual proposed must be able to communicate orally and in writing in English without any assistance and with minimal errors.

#### Reporting Requirements

If a TA has been authorized, the resource must provide a weekly status report in MS Word electronically to the Project Authority outlining what work was undertaken during the reporting period, what work is still outstanding, and any issues or concerns that the resource wants to identify to the

attention of the Project Auth template.	nority. The status report	ts must also be supp	orted by a	monthly detailed tim	e sheet mapped to deliver	ables, using stand	ard
Location of Work							
The work is expected to be p the National Capital Region.					rio, K1A 0L8 or an alternati	ve CBSA location	in
Client Support							
The contractor will be provide required. CBSA will provide of						ocumentation) as	
Period of Services / Période	e de service:						
Initial Start Date / Date de dé	but initiale : Ja	nuary 08, 2018	Initia	ıl End Date / Date de f	in initiale : Apr	il 30, 2018	
Extented End Date (See Reas	on for the Amendment	:) / Date de fin prolor	ngée (volr	Raison pour la modific	cation):		
Option To Extend Initial E	end Date / Option pour	prolonger la date de	fin initial	e			***************************************
Travel Requirement(s) / Exige	ence(s) de voyage :	NO	***************************************				
Work Location(s) / Lieu(x) de	travail :	333 North Rive Capital Region	r Road, Ot	tawa, Ontario K1A 0L8	or alternate CBSA location	in the National	
PART 2 (completed by the Contract	or and/or the Technical/Project Au	nhonty) / PARTIE 2	Ž (complétě pi	ir le Contracteur et/olu le Respon	sable technique/Charge du projet)		
A. Contractor Resource(s			ouvée, seules l	es ressources sulvantes peuvent	fournir des services sous la présente AT.	**************************************	
Name / Nom	Name / Nom Category / Catégorie Level / Niveau Profile linguistique Level of Security / Niveau de sécurité Profile Inguistique						***************************************
	Specialt (probabilistic Ma Matching	tware Developer - y in pME atching Engine) - algorithm pment	3	English / Anglais	Secret		+
B. Estimated Cost / Coût	<u>estimatif</u>						

By signing this TA, the authorized client authority and/or the PWGSC Contracting Authority

certify(ies) that the content of this TA is in accordance with the conditions of the Contract.

## TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

Category / Catégorie	Level / Niveau	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Cost / Coût estimatif
+ prammer/Software Developer - Specialty in pME	3			\$152,000.00
	\$152,000.00			
Total	\$0.00			
Taxe % applied / % de taxes appliquées	13.000	Applic	\$19,760.00	
	ited Cost / Coût total estimatif	\$171,760.00		

### PART 3 - TA APPROVAL BY CANADA / PARTIE 3 - APPROBATION DE L'AT PAR LE CANADA

The client's authorization limit is \$300,000.00. When the value of a TA and its amendments (including GST/HST) is in excess of this limit, the TA must be signed by the authorized client and forwarded to the PWGSC Contracting Authority for authorization.	La limite d'autorisation du client est \$300,000.00 . Lorsque la valeur de l'AT et ses modifications (incluant la TPS/TVH) dépasse cette limite, l'AT doit être signée par le client autorisé et transmise l'autorité contractante de TPSGC pour autorisation.				
Name of Authorized Client / Nom du client autorise  Date  Date	Name of Contracting Authority / Nom de Date l'autorité contractante				
Signature	Signature				
PART 4 - CONTRACTOR SIGNATURE / PARTIE 4 - SIGNA	ATURE DU CONTRACTEUR				
Name and Title of Individual authorized to sign on belfalf of the Contractor / Nom et titre	Jan 8, 2018 Signature Date				
de la personne autorisée à signer au nom de l'entrepreneur					

En apposant sa signature sur l'AT, le client autorisé et/ou l'autorité contractante de TPSGC

atteste(nt) que le contenu de cette AT est conforme aux conditions du contrat.

A. Contractor Resource(s) / Ressource(s) du Contracteur

# TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

PART 1 (completed by the Technical/Project A	Authority) / PARTI	E 1 (complété par	le Responsable technique / Chargo	é du projet)				
A. General Information / Infor	mations généra	ales						
Contract Number / Numéro du cont	trat : 47060-152	116/002/EL						
Contractor Name / Nom du Contrac	teur : DONNA CO	ONA INC.						
ask Authorization (TA) No. / N° Commitment No. / N° de Financial Coding / Code Date of Issuance / Date Response required by / $el'$ autorisation de tâches (AT): $el'$ l'engagement: $el'$ financier: $el'$ d'émission: $el'$ Réponse requise par:								
2019002714	1000346181	192040060/6001/10400 Aug 31, 2020 Sep 11, 2020						
B. For Amendments Only / Aux	c fins de modif	ication seule	ment					
Amendment No. / № de la modifica	tion : 4							
Reason for the Amendment / Raiso	n pour la modific	ation :						
Amendment #4 : PO:2019002714/R				6 is raised for the followired. No changes in the sta				
- Increase total cost from	, ,	(All applicable						
C. TA Requirements / Exigence	es relatives à l'A	<u> </u>						
Required Resource(s) / Ressource(s)	requise(s)							
Category / Catégori	e	Level / Niveau	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Linguistic Profile / Profil linguistique	le Required Level(s) of Security / Niveau(x) de sécurité requis			
Application/Software Architect - S Master Data Management (M		3	-	English / Anglais	<u>+</u>			
Statement of Work (tasks, deliverab	oles, reports, etc.)	/ Énoncé des t	ravaux (tâches, livrables	s, rapports, etc.)				
See Attached Annex A - Statement	of Work							
Period of Services / Période de se	rvice:							
Initial Start Date / Date de début ini	tiale : Feb	23, 2020	Initial End Da	ite / Date de fin initiale :	Feb 23, 2021			
Extented End Date (See Reason for the Amendment) / Date de fin prolongée (voir Raison pour la modification) : Feb 23, 2021								
Option To Extend Initial End Da	te / Option pour p	orolonger la da	te de fin initiale					
Travel Requirement(s) / Exigence(s)	de voyage :	N/A						
Work Location(s) / Lieu(x) de travail	Location(s) / Lieu(x) de travail : 333 North River Road, Ottawa, Ontario, K1A 0L8 or an alternative CBSA location in the National Capital Region							
PART 2 (completed by the Contractor and/or	the Technological ID-1-1-2 A -1	······································	'IF 2 (complés and comp	and at least to Danier and the second	Character to the control of the cont			

Note: once approved, only the following resources may provide services under this TA. / Nota: une fois approuvée, seules les ressources suivantes peuvent fournir des services sous la présente AT.

Name / Nom	Category / Catégorie	Level / Niveau		Level of Security / Niveau de sécurité	PWGSC Security File No. / Nº du dossier de sécurité TPSGC	
	Application/Software Architect - Specialty in IBM Master Data Management (MDM) Server	3	English / Anglais			

Category / Catégorie	Level / Niveau	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Cost / Coût estimatif
lication/Software Architect - Specialty in Master Data Management (MDM) Server	3			\$720,000.00
	\$720,000.00			
Total	\$0.00			
Taxe % applied / % de taxes appliquées	13.000	Applica	\$93,600.00	
		Total Estima	ted Cost / Coût total estimatif	\$813,600.00

### PART 3 - TA APPROVAL BY CANADA / PARTIE 3 - APPROBATION DE L'AT PAR LE CANADA

By signing this TA, the authorized client authority and/or the PWGSC Contracting Authority certify(ies) that the content of this TA is in accordance with the conditions of the Contract.	En apposant sa signature sur l'AT, le client autorisé et/ou l'autorité contractante de TPSGC atteste(nt) que le contenu de cette AT est conforme aux conditions du contrat.				
The client's authorization limit is \$300,000.00 . When the value of a TA and its amendments (including GST/HST) is in excess of this limit, the TA must be signed by the authorized client and forwarded to the PWGSC Contracting Authority for authorization.	La limite d'autorisation du client est \$300,000.00 . L (incluant la TPS/TVH) dépasse cette limite, l'AT doit l'autorité contractante de TPSGC pour autorisation	être signée par le client autorisé et transmise à			
Name of Authorized Client / Nom du client autorisé  Date  Digitally signed by DAROUZE  TONI  Date: 2020.09.24 11:39:16 -04'00'  Signature	Name of Contracting Authority / Nom de l'autorité contractante Michaud, Daniel   Digital yagned by Michaud. Daniel   Digital yagned by Michaud. Daniel   Digital   Dig	Date			

### PART 4 - CONTRACTOR SIGNATURE / PARTIE 4 - SIGNATURE DU CONTRACTEUR

Mark Coldham	Account Executive	DocuSigned by:	2020-09-24
Name and Title of individual authorized to sign on behalf of the Contractor / Nom et titre de la personne autorisée à signer au nom de l'entrepreneur		Signatus 4C5A97F0424	Date

Travaux publics et Services gouvernementaux Canada

PART 1 (completed by the Technical/Project)	Authority) / PARTI	IE 1 (compléte p.	or le Responsable technique / Charge	edu projet)		
A. General Information / Infor	mations génér	ales	***************************************			***************************************
Contract Number / Numéro du con	trat : 47060-152	:116/001/EL			***************************************	•••••
Contractor Name / Nom du Contrac	cteur : IBM Canac	la Limited/IBN	1 Canada Limitée			
Task Authorization (TA) No. / N° de l'autorisation de tâches (AT) :	Commitment N		Financial Coding / Code Financier :	Date of Issuance / D d'émission :	ate Response required b Réponse requise par	
2019001492	1000342264		1950 500 <b>20/C00045-</b> 21	17/09/2018	17/09/2018	
B. For Amendments Only / Au	x fins de modif	ication seul	ement			***************************************
Amendment No. / Nº de la modifica	ation :	***************************************				***************************************
Reason for the Amendment / Raiso	on pour la modific	ation :				herocante a recompanie
C. TA Requirements / Exigence	es relatives à l'/	AT				
Required Resource(s) / Ressource(s)	) requise(s)					
Category / Catégori	ie	Level / Nivea	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Linguistic Profile / Profile linguistique	Required Level(s) of Securit Niveau(x) de sécurité requis	
Test Coordinator - Specialty in Test one or many of the following Prod IBM IIS DataStage and QualityStage ESB, IBM GNM, IBM ODM Standard	lucts: IBM MDM, e, IBM ISII, IBM IIB-	3		English / Anglais	Secret	+
Statement of Work (tasks, deliveral	bles, reports, etc.)	/ Énoncé des	travaux (täches, livrable:	s, rapports, etc.)		d
Number of resources: One (1) Test BPM	Coordinator - Spe	cialty in IBM A	MDM, IBM InfoSphere Inf	formation Server (IIS) DataS	tage and QualityStage, and I	BM
Title: Test Coordinator - Level 3 – S QualityStage, IBM ISII, IBM IIB-ESB,				owing Products: IBM MDM,	IBM IIS DataStage and	
Background CBSA requires a test coordinator to activities in cooperation with the b Management Project.						ce test
The Canada Border Services Agency and goods across the border. The a front-line workers, and from multiprespond to a rapidly changing opegovernance and infrastructure requesterprise MDM service will providensure Agency information in multipagency's information assets across	availability of high ole viewpoints, to trating environme uired to establish le a reliable, timel tiple repositories	n-quality, auth foster inform int. Master Da an authoritat y and comple is identified, a	oritative information is on ed decision making and ta Management (MDM) i ive data source for the A te (360 degree) authorite	critical at all levels of the or- advance the Agency's intel includes the principles, star gency's people and busine ative view of the Agency's I	ganization, from executives i lligence and analytical capac ndards, processes, tools, ess identities. Implementation key business master data. Mi	to lity to n of an DM will
CBSA will be delivering the founda	tion Enterprise M	DM capability	in three releases; R458,	R448 and R409 and the Ent	ry Exit Project release R553.	

he scope of MDM Release 458 is to setup and prepare infrastructure for release 448 and onboard eManifest MDM to enterprise MDM;

- Acquire and setup enterprise MDM hardware to fulfil commercial and travellers enterprise requirements
- Install and configure new software for MDM service using MDM Advanced Server v. 11.6, DB2 Server Advanced with PureScale
- Data Stewardship Centre (DSC) deployed on IBM BPM platform should be installed and configured without any customization.
- · Use production-like R&D environment to test performance of MDM Solution to search and maintain master records using production-sized data set.

The goal of this exercise is to validate that MDM infrastructure will support enterprise performance requirements

- · Migrate eManifest MDM to the new hardware and software
- eManifest MDM database need to be transferred to the new infrastructure with minimum downtime for eManifest applications
- Test eManifest applications to make sure MDM functionality is not broken

The scope of MDM Releases 448 and 409 are driven by the following features in support of Entry/Exit Reconciliation and Identity Resolution reauirements:

- Design and develop services to resolve and search person biographical data in MDM, received from entry records (PH), exit records (EXIS) and immigration documents (IBAS)
- Ingest individual identities from immigration documents in IBAS
- Configure MDM to use probabilistic (fuzzy) and deterministic (exact) search engines to search a person to fulfil IRCC entity search requirements
- Setup MDM notification framework (pub/sub) to notify subscribers about master data changes
- Setup Data Stewardship Center (DSC) application to support data steward activities. Delivery of DSC will be pushed to the following release 409 if development team will not be able to develop this function in the timeline of release 448.
- Tune and optimize performance of MDM services to support Traveller and Commercial programs
- Design and develop a service to support standardized data preparation and cleaning to support master data ingestion processes
- · Use production-like R&D environment to test performance of MDM Solution to search and maintain master records using production-sized data set.
- The goal of this exercise is to validate that MDM infrastructure will support enterprise performance requirements
- Setup centralized Data Preparation and Loading Service (DPLS). Underlying components should be available in operational high availability mode
- Set up and provide ongoing data governance and stewardship for Traveller's Master Data sourced from EXIS, PH and IBAS
- Design and develop new centralized Data Sharing Tracking Service (DSTS)

### The MDM scope of Entry Exit Release R553 includes:

- MDM will manage Travel Status rules internal to the MDM application.
- MDM will calculate the Travel Status based on the information contained in the master record.
- Modify MDM Change Notification function to improve the ability for consumers to identify what was changed in MDM,

To acquire professional services for one Test Coordinator Level 3 to perform the tasks and deliverables below.

### Expertise (ongoing)

- Provide expertise in all aspects of testing applications developed with the following IBM products; IBM BPM, MDM, and IIS;
- Provide advice, guidance for the development of a test strategy, test plans, test scenarios, test cases, unit tests including recommendations for the selection of automated testing tools, and identification of test environment and resources required for testing

#### Planning activities (October 2018)

- · Gain an understanding of the high level functional design documents including the various interactions and interfaces between the aggregated parts of the integrated solution.
- Establish in cooperation with the business a clear set of success criteria from both a technical and a business perspective.
- Put in place a working group dedicated to the MDM testing.
- Identify the potential High Level Work Packages in which Test Cases could be grouped.
- Build a schedule that includes test planning, execution, control, and configuration management activities.
- Determine the amount of effort and resources associated to its implementation.
- Meet with the key stakeholders.
- Gather information regarding the current Test Environment in order to properly assess what might be missing.
- Identify the gaps across projects in terms of the standards, processes and procedures.
- · Identify the various risks related and their associated mitigation measures.

#### Execution activities (November - March 2019)

- Coordinate the execution of the plan with the required stakeholders.
- Develop, prepare and deliver the following documentation: Test Strategy, Test Plan, Test Cases, Test Scripts (including the ones to be automated for regression testing)
- · Identify the Test Cases that are eligible for automation in the context of future functional testing activities (regression).
- · Ensure that Test scripts are properly documented, adhere to the Agency's standards, work as specified, and stored.

Traveux publics et Services gouvernementaux Canada

# TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

Participate actively and contribute significantly in the elaboration of End to End User Acceptance Test (UAT) Plans

- Follow CBSA Testing standards, processes and tools in order to:
- o Track and monitor bugs and defects.
- o Manage both Problem Reports and Change requests.
- o Maintain and report on problems through a problem log.
- o Ensure common pieces of test scripts in a common repository.
- o Ensure the consistency of the various templates, release notations and release packages.
- Gather and report on Test Results and perform an evaluation against a set of predefined Test Success Criteria.

#### Monitoring and control activities (November to March 2019)

- Report on risks that have been identified as part of the testing activities and apply mitigation measures when the risk occurs. Ensure this is reflected in the plan.
- · Report on the progress of all tests being conducted.
- Report on issues or concerns and address them when possible or escalate them to the MDM Service Manager.
- Schedule weekly meeting with the working group as well as the SMEs.

#### Closure Activities April 2019)

- Provide a final report on all tests that were conducted.
- Perform a post-mortem incorporating lessons learned.

#### Deliverables

The Contractor shall deliver the following:

- MDM and Data Stewardship Test Strategy including a clear set of success criteria from both a technical and a business perspective.
- Consolidated documentation of test scenarios and test cases
- Functional Test Plans by release for Master Data Management Service including Data Stewardship
- User Acceptance Test (UAT) Plans by release for Master Data Management Service including Data Stewardship
- Test schedules for functional and user acceptance test plans
- · Functional and User Acceptance Test reports, test logs, test traceability matrix
- Test Environment Gap Analysis Report
- Risk Report Log testing related risks and their associated mitigation measures.

#### Further, please note the following:

- All deliverables must be provided in conformance with CBSA's standard desktop operating software which is Microsoft Office Suite (including Word, Excel, Visio and PowerPoint), and HP Quality Center in English.
- All deliverables must be provided in a manner that permits integration with CBSA's technical and operational environment as specified by the Project Authority. All deliverables must be in the format of or compatible with the (SLMF) Service Life Cycle Management Framework.
- All deliverables must be provided to the Project Authority for their review and acceptance. Should there be problems or issues with the deliverables being presented, the Project Authority will notify the resource of the items that must be modified within five (5) business days of receipt of the deliverable.

#### Technical Environment

As defined in the Annex A - SOW - Section 12 of the contract number 47060-152116/0011/EL for the acquisition of Professional Services for SOAPS-MDMS-ERASS.

#### Constraints

At no time and in no way is CBSA data to be removed from CBSA sites, nor will access to or from the Contractor's IT systems through the use of a session or ling (e.g. VPN) be permitted. The contractor must comply with CBSA internal security policies, directives, standards, and guidelines at all times during the contract.

The CBSA's working hours are between 07:00 to 18:00 Monday through Friday, except for Statutory Holidays where Government Offices are closed. These are core hours and are not representative of the duration of a Contractor's work day.

#### Language

The proposed Resource will be required to perform the work in English. Every individual proposed in its bid will be fluent in English. The individual proposed must be able to communicate orally and in writing in English without any assistance and with minimal errors.

#### Reporting Requirements

If a TA has been authorized, the resource must provide a weekly status report in MS Word electronically to the Project Authority outlining what work was undertaken during the reporting period, what work is still outstanding, and any issues or concerns that the resource wants to identify to the attention of the Project Authority. The status reports must also be supported by a monthly detailed time sheet mapped to deliverables, using standard template.

Location of Work The work is expected to be the National Capital Region Client Support The contractor will be provirequired. CBSA will provide	. There is no travel ded with a CBSA ι	requirement under this Ta	ask Autho	rization. -mail address and oth	ier materials (supporting d		e con		
Period of Services / Périod	e de service:						***************************************		
Initial Start Date / Date de de	but initiale :	01/10/2018	Initia	al End Date / Date de f	în initiale : 30/	04/2019			
Extented End Date (See Reas		lment) / Date de fin prolon pour prolonger la date de		,	cation):				
Travel Requirement(s) / Exig	ence(s) de voyage	: N/A	***************************************						
Work Location(s) / Lieu(x) de travail : 333 North Rive				er Road, Ottawa, Ontario K1A 0L8					
PART 2 (completed by the Contract  A. Contractor Resource)  Note: once approved, only the following re-	s) / Ressource(s	) du Contracteur					M0000000000000000000000000000000000000		
Name / Nom	Cate	gory / Catégorie	Level / Niveau	Linguistic Profile / Profile linguistique	Level of Security / Niveau de sécurité	PWGSC Security File No. / Nº du dossier de sécurité TPSGC	***************************************		
Test Coordinator - Specialty in Test coordination of one or many of the following Products: IBM MDM, IBM IIS DataStage and QualityStage, IBM ISII, IBM IIB-ESB, IBM GNM, IBM ODM Standard and Advanced		3	English / Anglais	Secret	92021872-0001 532656				

Category / Catégorie	Level / Niveau	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Cost / Coùt estimatif
+ Test Coordinator - Specialty in Test dination of one or many of the following ducts: IBM MDM, IBM IIS DataStage and QualityStage, IBM ISII, IBM IIB-ESB, IBM GNM, IBM ODM Standard and Advanced	3			\$148,800.00
		•	Estimated Cost / Coût estimatil	\$148,800.00
Total I	Estimated Trav	el and Living Cost / Coût tota	al estimatif de voyage et de vie	\$0.00
Taxe % applied / % de taxes appliquées	13.000	Appli	cable Taxes / Taxes applicables	\$19,344.00
<u> </u>	00.00.00.00.00.00.00.00.00.00.00.00.00.	Total Estim	ated Cost / Coût total estimati	\$168,144.00

By signing this TA, the authorized client authority and/or the PWGSC Contracting Authority certify(ies) that the content of this TA is in accordance with the conditions of the Contract.	En apposant sa signature sur l'AT, le client autori- atteste(nt) que le contenu de cette AT est confor	
The client's authorization limit is \$300,000.00. When the value of a TA and its amendments (including GST/HST) is in excess of this limit, the TA must be signed by the authorized client and forwarded to the PWGSC Contracting Authority for authorization.	La limite d'autorisation du client est \$300,000.00 (incluant la TPS/TVH) dépasse cette limite, l'AT de l'autorité contractante de TPSGC pour autorisation	oit être signée par le client autorisé et transmise
Name of Authorized Client / Norm du client autorisé Date	Name of Contracting Authority / Nom de l'autorité contractante	Date
Supativo	Signature	AAAAA AAAAA AAAAAAAAAAAAAAAAAAAAAAAAAA

PART 4 - CONTRACTOR SIGNATURE / PARTIE 4 - SIGN	ATORE DO CONTRACTEOR	
Name and Title of individual authorized to sign on behalf of the Contractor / Nom et titre de la personne autorisée à signer au nom de l'entrepreneur	Signature	Date
	Name and Title of individual authorized to sign on behalf of the Contractor / Nom et titre	Matthe and title of mentangia and content to sign on mental or the commentary in the content of



Travaux publics et Services gouvernementaux Canada

PARI 1 (completed by the Technical/Project Authority) / PAR	(IIE 1 (complété par le Respons	able technique / Chargé du projet)			
A. General Information / Informations g	<u>jénérales</u>				
Contract Number / Numéro du contrat :	47060-152116/002/E	L			
Contractor Name / Nom du Contracteur :	DONNA CONA INC	<b>c</b> .			
Task Authorization (TA) No. № de l'autorisation de tâches (AT) :	Commitment No. N° de l'engagement :	Financial Co Code financ		Date of Issuance Date d'émission :	Response required by Réponse requise d'ici le :
2019002451	1000339847	1920400060/60	001/10400	Jan 18, 2020	29-Jan-2020
B. For Amendments Only / Aux fins de	modification seulem	<u>ent</u>			
Amendment No. / N° de la modification :	3				
Reason for the Amendment / Raison pour la m	odification :				
Amendment #2 is raised for the following:  1) Extend end date from February 23, 202  2) - Add -	20 to February 23, 202 days Total ; days Total;	t1; ble taxes extra).			
C. TA Requirements / Exigences relativ	res à l'AT				
Required Resource(s) / Ressource(s) requise(s)	s)				
Category and Level Catégorie et Niveau		Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	-	c Profile / Profile guistique	Required Level(s) of Security / Niveau(x) de sécurité requis
Programmer/Software Developer - Special Information Server (IIS) Datastage a Level 3	-		Englis	sh / Anglais	
Programmer/Software Developer - Spe Data Management (MDM) - Java Level 3			English / Anglais		
					!
Statement of Work (tasks, deliverables, reports	s, etc.) / Énoncé des trav	raux (tâches, livrables	s, rapports, et	c.)	
See attached / Voir pièce jointe					
Period of Services / Période de service:					
Initial Start Date / Date de début initiale :	24-Jan-2019	Init	ial End Date	/ Date de fin initiale :	23-Feb-2021
Extented End Date (See Reason for the Amen	dment) / Date de fin prol	ongée (voir Raison p	our la modific	eation):	
☐ Option To Extend Initial End Date / Option	n pour prolonger la date	de fin initiale			
Optional End Date(s) / Date(s) de fin	optionnelle(s)		Sta	atus / Statut	
Х			O In E	ffect / en vigueur	

Travel Requirement(s) / Exigence(s) de voyage	/a
Work Location(s) / Lieu(x) de travail :	333 North River Road, Ottawa, Ontario, K1A 0L8 or an alternative CBSA location
Tront Essatistics) / Elsa(x) as travair.	in the National Capital Region

### PART 2 (completed by the Contractor and/or the Technical/Project Authority) / PARTIE 2 (complété par le Contracteur et/ou le Responsable technique / Chargé du projet)

Contractor Resource(s) and Estimated Note: once approved, only the following resources may provide services und					
Name / Nom Category and Level / Catégorie et Niveau	PWGSC Security File No. / Nº du dossier de sécurité TPSGC	Linguistic Profile / Profil linguistique	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Estimated Cost / Coût total estimatif
Programmer/Software developer - Specialty in IBM Infosphere Information Server (IIS) Datastage and Quality Stage		English/Anglais		And a second	
Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java Development		English/Anglais		- 1	_
Estimated Cost / Coût estimatif					
Total Estimated Travel and Living Cost / Coût total estimatif de voyage et de vie					
Taxes % applied # % taxes appliquées	13	Applicable Taxes /	Taxes applica	bles	\$218,913.50
Total Estimated Cost / Coût total estimatif					
Check applicable Basis of Pa Cocher la Base de Paiement ap	•	Maximum Price / Prix Maximum :		Firm Price / Prix Ferme :	

### PART 3 - TA APPROVAL BY CANADA / PARTIE 3 - APPROBATION DE L'AT PAR LE CANADA

By signing this TA, the authorized client authority and/or the PWGSC Contracting Authority certify(ies) that the content of this TA is in accordance with the conditions of the Contract.	En apposant sa signature sur l'AT, le client autorisé et/ou l'au TPSGC atteste(nt) que le contenu de cette AT est conforme a	
The client's authorization limit is \$150,000. When the value of a TA and its amendments (excluding Applicable Taxes) is in excess of this limit, the TA must be signed by the authorized client and forwarded to the PWGSC Contracting Authority for authorization.	La limite d'autorisation du client est 150,000 \$. Lorsque la val modifications (excluant les taxes applicables) dépasse cette limite, l'AT doit autorisé et transmise à l'autorité contractante de TPSGC pou	être signée par le client
Name of Technical Authority / Nom de l'autorité techn Date  DAROUZE Digitally signed by DAROUZE TONI Date: 2020.03.26 14:59:54 -04'00'	Name of Contracting Authority / Nom de l'autorité contractante  Michaud, Dafiel Digitally signed by: Michaud, Dafiel Disc. (20) = Michaud, Dariel C = CA/O = GC 01 = PWGSC-TRSGC TRSGC Date: 2000.03.27 08.12.41 -0400	Date
Signature	Signature	-

### PART 4 - CONTRACTOR SIGNATURE / PARTIE 4 - SIGNATURE DU CONTRACTEUR

Mark Coldham	DocuSigned by:	2020-03-27
Account Executive	Moell	2020-03-27
Name and Title of individual authorized to sign on behalf of the Contractor /	Signal D284C5A97F0424	Date
Nom et titre Signature de la personne autorisée à signer au nom de		
l'entrepreneur		

AND A PARTIE 1

(completed by the Technical/Project At	ithority) / 1 / 1/11	s & Complete pa	se veshouzanse recunidae \ cuside	au projetj		
A. General Information / Information	mations génér	ales				
Contract Number / Numéro du contr	at: 47060-152	116/002/EL				
Contractor Name / Nom du Contract	teur ፣ Donna Co	nna Inc.				***************************************
Task Authorization (TA) No. / № de l'autorisation de tâches (AT) :	Commitment No			Date of Issuance / D d'émission :	Pate Response required l Réponse requise pa	
2019002451	1000339847		92040060-6001-34210	February 11, 2019	February 15, 2019	
B. For Amendments Only / Aux	fins de modifi	cation seule	ment			
Amendment No. / Nº de la modificat	ion: 1					
Reason for the Amendment / Raisor	n pour la modifica	ation :				
Amendment #1 is raised for the foll 1) Extend end date from February 2: 2) Add 3) Add 4) Increase total cost from \$290,750	3, 2019 to Februa days total estimat days total esti	ted level of effo imated level of		tware Developer IIS; /Software Developer IIS;		
C. TA Requirements / Exigence	s relatives à l'A	\T				•
Required Resource(s) / Ressource(s) r	requise(s)					
Category / Catégorie		Level / Niveau	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Linguistic Profile / Profile linguistique	Required Level(s) of Securit Niveau(x) de sécurité requis	
Programmer/Software Developer - S InfoSphere Information Server (IIS) QualityStage		3		English / Anglais	Secret	
Programmer/Software Developer - S Master Data Management (MD development		3		English / Anglais	Secret	
Statement of Work (tasks, deliverable	es, reports, etc.)	/ Énoncé des ti	avaux (tāches, livrables,	rapports, etc.)		
See Attached Annex A - Statement o	f Work.					
Period of Services / Période de serv	/ice:					
Initial Start Date / Date de début initi	ale: Jan	24, 2019	Initial End Da	te / Date de fin initiale :	Feb 23, 2019	
Extented End Date (See Reason for th	ne Amendment) ,	/ Date de fin p	rolongée (voir Raison po	our la modification) :	Feb 23, 2020	
Option To Extend Initial End Date	e / Option pour p	rolonger la dat	te de fin initiale			
Travel Requirement(s) / Exigence(s) of	de voyage :	No travel r	equirement under this	Task Authorization.		
Work Location(s) / Lieu(x) de travail :		333 North	River Road, Ottawa, On	tario K1A OL8 or an alternat	tive CBSA location in the NCR	<b>\</b> .

PART 2 (completed by the Contractor and/or the Technical/Project Authority) / PARTIE 2 (complété par le Contracteur et/ou le Responsable technique / Chargé du projet)

once approved, only the following	resources may provide services under this TA. / Nota: use fols appro	uvée, seules le	es ressources suivantes peuvent f	ournir des services sous la présente AT.	
Name / Nom	Category / Catégorie	Level / Niveau	Linguistic Profile/ Profile linguistique	Level of Security / Niveau de sécurité	PWGSC Security File No. / Nº du dossier de sécurité TPSGC
	Programmer/Software Developer - Specialty in IBM InfoSphere Information Server (IIS) DataStage and QualityStage	3	English / Anglais	Secret	223938-1
F C	Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java development	3	English / Anglais	Secret	219052-2

Category / Catégorie	Level / Niveau	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Cost / Coût estimatif
+ grammer/Software Developer - Specialty - IBM InfoSphere Information Server (IIS) - DataStage and QualityStage	3			\$136,000.00
Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java development	3			\$825,550.00
		E	Estimated Cost / Coût estimatif	\$961,550.00
Total E	stimated Trav	el and Living Cost / Coût tota	l estimatif de voyage et de vie	\$0.00
Taxe % applied / % de taxes appliquées	13.000 Applicable Taxes / Taxes applicables			\$125,001.50
	-	Total Estima	ated Cost / Coût total estimatif	\$1,086,551.50

### PART 3 - TA APPROVAL BY CANADA / PARTIE 3 - APPROBATION DE L'AT PAR LE CANADA

By signing this TA, the authorized client authority and/or the PWGSC Contracting Authority certify(ies) that the content of this TA is in accordance with the conditions of the Contract.			En apposant sa signature sur l'AT, le client autorisé et/ou l'autorité contractante de TPSGC atteste(nt) que le contenu de cette AT est conforme aux conditions du contrat.			
(including GST/HST) is In		ne value of a TA and its amendments it be signed by the authorized client and norization.	La limite d'autorisation du client est \$300,000.00 . Lo (incluant la TPS/TVH) dépasse cette limite, l'AT doit êt l'autorité contractante de TPSGC pour autorisation.			
Name of Authorized Cli	ent / Nom du client autorisé  Digitally signed by #\$\$PENT ROBERT DN: cmc3, cmgc, ou \text{\text{CERT DN: cmc3, cmg, ou \text{\text{CERT DN: cmg, ou \text{\text{CERT DN: cmc3, cmg, ou \text{\text{CERT DN: cmc3, cmg, ou \text{\text{CERT DN: cmc3, cmg, ou \text{\text{CERT DN: cmg, ou \text{\text{CERT DN: cmg, ou \text{\text{CERT DN: cmg, ou \text{\text{CERT DN: cmg, ou \text{\text{CERT DN: cmg, ou \text{\text{CERT DN: cmg, ou \text{\text{CERT DN: cmg, ou \text{\text{CERT DN: cmg, ou \text{\text{CERT DN: cmg, ou \text{\text{CERT DN: cmg, ou \text{\text{CERT DN: cmg, ou \te	Date	Name of Contracting Authority / Nom de l'autorité contractante	Date		
ROBERT Signature	CH. CHS, LINGS, CHO THE MORE AT SHORE A		Signature Villeneuve, Julie 3	Digitally signed by Villeneuve, Julie 3 Date: 2019.02.13 15:31:11 -05'00'		



Travaux publics et Services gouvernementaux Canade

MARK COLOHAM	Mal	Feb 12, 2019
Name and Title of individual authorized to sign on behalf of the Contractor / Nom et titre de la personne autorisée à signer au nom de l'entrepreneur	Signature	Date

REQ#: 100033987-2019002451

## STATEMENT OF WORK ANNEX A

### Title

Canada Border Services Agency requires one (1) Programmer / Software Developer – Level 3 – Specialty in IBM Master Data Management (MDM) – MDM Software Developer (for support)

and

one (1) Programmer/Software Developer - Specialty in IBM InfoSphere Information Server (IIS) DataStage and QualityStage (for support)

### **Background**

The Canada Border Services Agency (CBSA) is undertaking an ambitious agenda of change in support of various Beyond the Border initiatives and Border modernization efforts. The Information, Science and Technology Branch (ISTB) support these efforts with oversight and alignment of major capital projects and the associated information technology solutions. Traditional IT functions have been augmented with program directorates that drive business transformation efforts and alignment of business solutions in portfolios for Travelers, Commercial, Common and Corporate projects.

To advance the planning, development and implementation of the Agency's transformation agenda, ISTB is implementing an enterprise approach to the management of its portfolio of systems, projects and services.

In support of the above, the Common Services Portfolio Directorate (CSPD) has undertaken the Master Data Management Service (MDMS), to put in place an Enterprise Building Blocks that can be leveraged by other initiatives including the Entry/Exit (E/E), BioMetrics and UPASS projects. The delivery of the Entry/Exit project is dependent on successful delivery of the foundational components found in MDMS.

### **Objective**

To acquire professional services for one MDM Software Developer to perform second line of support for CBSA MDM production deployment.

#### Tasks and Deliverables

The Contractor must provide the professional services to perform the following tasks and deliver the following project deliverables, first in draft format, to be followed by a final product incorporating comments of the CSPD project manager (or their delegates).

### **Tasks**

Provide CBSA with technical expertise and guidance on the following topics:

REQ#: 100033987-2019002451

- Review MDM production logs to troubleshoot a potential issue. The issue could be related to MDM core, CBSA extension code, DataStage/QualityStage, BPM with MDM Data Stewardship Center, database, MQ, networking
- Recreate an issue in production support environment if possible
- Find a solution for the issue. Fix and test solution in production support environment
- Support moving fixed code to production environment
- Communicate progress along the way

#### **Deliverables**

The Contractor shall provide the following:

- Reports on troubleshooting of production issues (monthly by March 30, 2020);
- Fixed code or configuration (as required by March 30, 2020);
- Document code or configuration changes required for the fix. Documentation should include recommendations for future development to prevent similar issues;
- Knowledge transfer by March 30, 2020;

### Skills required

- Extensive experience of developing, troubleshooting and supporting MDM services including DataStage/QualityStage, Data Stewardship Center
- · Good communication skills, both verbal and written
- Strong problem-solving skills

All deliverables must be provided in conformance with CBSA's standard desktop operating software which is Microsoft Office Suite (including Word, Excel, Visio and PowerPoint) and Archimate in English.

All deliverables must be provided in a manner that permits integration with CBSA's technical and operational environment as specified by the Project Authority. All deliverables must be in the format of or compatible with the (SLMF) Service Life Cycle Management Framework.

All deliverables must be provided to the Project Authority for their review and acceptance. Should there be problems or issues with the deliverables being presented, the Project Authority will notify the resource of the items that must be modified within five (5) business days of receipt of the deliverable.

### **Technical Environment**

As defined in Section 12 of the contract number 47060-152116/002/EL.

### Constraints

At no time and in no way is CBSA data to be removed from CBSA sites, nor will access to or from the Contractor's IT systems through the use of a session or line (e.g. VPN) be permitted. The contractor must

REO#: 100033987-2019002451

comply with CBSA internal security policies, directives, standards, and guidelines at all times during the contract.

Support contractor will be able to use CBSA device to perform remote work using CBSA VPN. This device cannot be carried outside of Canada.

Working hours for MDM support has to be 24 hours a day, 7 days a week. Maximum response time for call back should be 15 minutes.

### Language

The proposed Resource will be required to perform the work in English. Every individual proposed in its bid will be fluent in English. The individual proposed must be able to communicate orally and in writing in English without any assistance and with minimal errors.

### **Reporting Requirements**

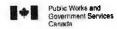
If a TA has been authorized, the resource must provide a weekly status report in MS Word electronically to the Project Authority outlining what work was undertaken during the reporting period, what work is still outstanding, and any issues or concerns that the resource wants to identify to the attention of the Project Authority. The status reports must also be supported by a monthly detailed time sheet mapped to deliverables, using standard template.

#### **Location of Work**

The work is expected to be performed on CBSA premises located at 333 North River Road, Ottawa, Ontario, K1A 0L8 or an alternative CBSA location in the National Capital Region. There is no travel requirement under this Task Authorization. Remote work will be allowed using CBSA devices.

### **Client Support**

The contractor will be provided with a CBSA user ID, password, workstation and e-mail address and other materials (supporting documentation) as required. CBSA will provide each resource with a building access pass, network account when working in CBSA premises.



CONTRACTOR OF COMM	7	Tanana.	Arapacanta lacantina i Calenda	Lympa		330
A. General Information / Informati	ons général	les				
Contract Number / Numéro du contrat :	47060-1521	16/002/EL				
Contractor Name / Nom du Contracteur	: Donna Conr	na Inc.				
I BEN FIGURE CONTINUE TO THE PERSON OF THE P	nmitment No. gagement :	ment No. / N° de Financial Coding / Code Date of Issuance / Date ment: Planting d'émission: Répons				
	0339847	19	2040060/6001/34210	Aug 13, 2019	Aug 20, 2019	
B. For Amendments Only / Aux fin	s de modific	cation seuler	ment			
Amendment No. / Nº de la modification	; 2					
Reason for the Amendment / Raison po						
This amendment is being raised to incre Programmer/Software Developer -Spec	ease the TA by ialty InfoSphe	/ \$57,630 (incluere Information	iding taxes), to increase i Server (IIS) DataStage	e the level of effort by data and QualityStage resource.	ys to the IBM	
C. TA Requirements / Exigences re	latives à l'A	Ι				
Required Resource(s) / Ressource(s) requ	uise(s)					.
Category / Catégorie		Level / Niveau	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Linguistic Profile / Profile linguistique	Required Level(s) of Security / Niveau(x) de sécurité requis	
IBM  Programmer/Software Developer -: InfoSphere Information Server DataStage and QualityStage	(IIS) e	3		English / Anglais	Secret	Ė
Programmer/Software Developer - Specialty in IBM  Master Data Management (MDM) - Java  Development		٠ 3		English / Anglais	Secret	
Statement of Work (tasks, deliverables,	reports, etc.)	/ Énoncé des t	ravaux (tâches, livrable:	s, rapports, etc.)		
See attached Statement of Work.						
Period of Services / Période de servic	e:					
Initial Start Date / Date de début initial	e: Ma	r 5, 2018	Initial End Da	ate / Date de fin initiale :	Feb 23, 2020	
Extented End Date (See Reason for the				oour la modification):		
Option To Extend Initial End Date /	Option pour	prolonger la d	ate de fin initiale			
Travel Requirement(s) / Exigence(s) de	voyage:	N/A				
Work Location(s) / Lieu(x) de travail :		333 North	River Road, Ottawa Or	ntario Ki A OL8		

Page 1 of 3



Name / Nom	Category / Catégorie	Level / Niveau		Level of Security / Niveau de sécurité	PWGSC Security File No. / Nº du dossier de sécurité TPSGC
glassed responses to the energy of	Programmer/Software Developer - Specialty in IBM InfoSphere Information Server (IIS) DataStage and QualityStage	3	English / Anglals	Secret	223938-1
R	Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java Development	3	English / Anglais	Secret	219052-2

Category / Catégorie	Level / Niveau	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Cost / Coût estimatif
# IBM grammer/Software Developer -Specialty InfoSphere Information Server (IIS) DataStage and QualityStage	3			\$187,000.00
Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java Development	3			\$825,550.00
		E	stimated Cost / Coût estimatif	\$1,012,550.00
Total E	stimated Trav	el and Living Cost / Coût total	estimatif de voyage et de vie	\$0.00
Taxe % applied / % de taxes appliquées	13.000	Applica	able Taxes / Taxes applicables	\$131,631.50
		Total Estima	ted Cost / Coût total estimatif	\$1,144,181.50

By signing this TA, the authorized client authority and/or the PWGSC Contracting Authority certify(les) that the content of this TA is in accordance with the conditions of the Contract.	En apposant sa signature sur l'AT, le client autorisé et, atteste(nt) que le contenu de cette AT est conforme à	ou l'autorité contractante de TPSGC ux conditions du contrat.
The client's authorization limit is \$300,000.00. When the value of a TA and its amendments fincluding GST/HST) is in excess of this limit, the TA must be signed by the authorized client and forwarded to the PWGSC Contracting Authority for authorization.  The land of Authorized Client / Norm du client autorisé  Date	La limite d'autorisation du client est \$1,200,000.0 (incluant la TPS/TVH) dépasse cette limite, l'AT doit êtr l'autorité contractante de TPSGC pour autorisation.	Sour la valour de l'AT et ses madié aut
Name of Authorized Client / Nom du Client autorise Date	Name of Contracting Authority / Nom de l'autorité contractante	Date
	Michaud, Daniel Digitally signed by Michaud, Daniel Date: 2019,08.30 12:24:51-04'00'	
Signature	Signature	

Page 2 of 3



AND THE PROPERTY OF THE PROPERTY OF THE PARTY  SAMEDINE DITICORFUNCTEDIA		
Lawra Worth Account Executive  Mar L Colotholo  Name and Title of individual authorized to sign on behalf of the Contractor / Nom et titre de la personne autorisée à signer au nom de l'entrepreneur	Signature Work Date 914/1	9



Section Control Contro	in the second		ral regard			
A. General Information / Informations génér	ales			***************************************		
Contract Number / Numéro du contrat : 47060-152	2116/002/EL					
Contractor Name / Nom du Contracteur : Donna Co	nna Inc.			•		
Task Authorization (TA) No. / № Commitment N de l'autorisation de tâches (AT) : l'engagement :		Financial Coding / Code Inancier :	Date of Issuance / D d'émission :		Response required by / Réponse requise par :	,
2019002451 1000339847		92040060-6001-34210	Jan 21, 2019		Jan 23, 2019	
B. For Amendments Only / Aux fins de modif	ication seul	ement				
Amendment No. / № de la modification :				****************		
Reason for the Amendment / Raison pour la modific	ation :					
						ᆜ
C. TA Requirements / Exigences relatives à l'A	AT					
Required Resource(s) / Ressource(s) requise(s)	1			T		, l
Category / Catégorie	Level / Nivea	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Linguistic Profile / Profile linguistique		d Level(s) of Security / (x) de sécurité requis	
Programmer/Software Developer - Specialty in IBM InfoSphere Information Server (IIS) DataStage and QualityStage	3		English / Anglais	Secret	***************************************	+
Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java development	3		English / Anglals	Secret		
Statement of Work (tasks, deliverables, reports, etc.)	/ Énoncé des t	ravaux (tâches, livrables	, rapports, etc.)	***************************************		
See attached.						
Period of Services / Période de service:						=
Initial Start Date / Date de début initiale : Jan	24, 2019	Initial End Da	te / Date de fin initiale :		Aug 31, 2019	
Extented End Date (See Reason for the Amendment)	/ Date de fin p	rolongée (voir Raison pe	our la modification) :			
Option To Extend Initial End Date / Option pour p	rolonger la da	te de fin initiale				
Travel Requirement(s) / Exigence(s) de voyage :	No travel r	equirement under this 1	Fask Authorization.			
Work Location(s) / Lieu(x) de travail :	333 North	River Road, Ottawa, Ont	ario K1A 0L8 or an alternat	ive CBSA	location in the NCR.	

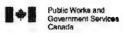


	s) / Ressource(s) du Contracteur esources may provide services under this TA. / Nota : une fois appro	Juvée, seules	les ressources suivantes peuvent	fournir des services sous la présente AT.	
Name / Nom	Category / Catégorie	Level / Niveau	Linguistic Profile / Profile linguistique	Level of Security / Niveau de sécurité	PWGSC Security File No. / Nº du dossier de sécurité TPSGC
	Programmer/Software Developer - Specialty in IBM InfoSphere Information Server (IIS) DataStage and QualityStage	3	English / Anglais	Secret	223938-1
	Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java development	3	English / Anglais	Secret	219052-2

Category / Catégorie	Level / Niveau	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Cost / Coût estimatif
+ prammer/Software Developer - Specialty IBM InfoSphere Information Server (IIS) DataStage and QualityStage	3			\$34,000.00
Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java development	3			\$256,750.00
	\$290,750.00			
Total E	stimated Trav	el and Living Cost / Coût tota	l estimatif de voyage et de vie	\$0.00
Taxe % applied / % de taxes appliquées	13.000	Applic	\$37,797.50	
·		Total Estima	ated Cost / Coût total estimatif	\$328,547.50

PART 3 - IA APPROVAL BY CANADA / PARTIE 3 - APP	OBATION DEL'AT PAR LE CANADA
By signing this 1A, the authorized client authority and/or the PWGSC Contracting Authority certify(les) that the content of this TA is in accordance with the conditions of the Contract.	En apposant sa signature sur l'AT, le client autorisé et/ou l'autorité contractante de TPSGC atteste(nt) que le contenu de cette AT est conforme aux conditions du contrat.
1he client's authorization limit is \$300,000.00. When the value of a 1A and its amendments including GST/HST) is in excess of this limit, the 1A must be signed by the authorized client and forwarded to the PWGSC Contracting Authority for authorization.  Robert Fermandes 2019-01-28	La limite d'autorisation du client est \$300,000.00 . Lorsque la valeur de l'AT et ses modifications (incluant la TPS/TVH) dépasse cette limite, l'AT doit être signee par le client autorisé et transmise à l'autorité contractante de TPSGC pour autorisation.
Name of Authorized Client. Non du chent autorise Date	Name of Contracting Authority / Nom de Date l'autorité contractante
Signature Kingson	Villeneuve, Julie 3 Digitally signed by Villeneuve, Julie 3 Date: 2019.01.29 15:23:39 -05'00'

PART 4 - CONTRACTOR SIGNATURE / PARTIE 4 - SIGNATURE DU CONTRACTEUR



Travaux publics et Services gouvernementaux Canada

MAKK GLOHAM AE	Moule	01/29/2019
Name and Title of individual authorized to sign on behalf of the Contractor / Nom et titre de la personne autorisée à signer au nom de l'entrepreneur	Ignature	Date /



PART 1 (completed by the Technolis's regard Authority) / PARTIE 1 (completed our le Resourceable rechnique / Changlide contes) A. General Information / Informations générales Contract Number / Numéro du contrat : 47060-152116/002/EL Contractor Name / Nom du Contracteur : Donna Conna Inc. Financial Coding / Code Task Authorization (TA) No. / Nº Commitment No. / Nº de Date of Issuance / Date Response required by / de l'autorisation de tâches (AT) : l'engagement financier: d'émission Réponse requise par : 1000339847 192040060-6001-34210 2019002452 February 11, 2019 February 15, 2019 For Amendments Only / Aux fins demodification seulement Amendment No. / Nº de la modification : Reason for the Amendment / Raison pour la modification : Amendment #1 is raised for the following: I) Extend end date from May 31, 2019 to February 23, 2020; ays total estimated level of effort; 3) Acc. 3)increase total cost from \$144,175.00 to \$474,000.00 (All applicable taxes extra). C. TARequirements/Exigences relatives à l'AT Required Resource(s) / Ressource(s) requise(s) Estimated Level of Effort (days) / Niveau Linguistic Profile/ Profile Required Level(s) of Security / Category / Catégorie Level / Niveau d'effort estimatif linguistique Niveaulxi de sécurité requis-(lours) Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java 3 English / Anglais Secret development Statement of Work (tasks, deliverables, reports, etc.) / Énoncé des travaux (tâches, livrables, rapports, etc.) See Attached Annex A - Statement of Work. Periodof Services / Période de service : May 31, 2019 an 24, 2019 Initial End Date / Date de fin initiale : Initial Start Date / Date de début initiale : Extented End Date (See Reason for the Amendment) / Date de fin prolongée (voir Raison pour la modification) : February 23, 2020 Option To Extend Initial End Date / Option pour prolonger la date de fin initiale Travel Requirement(s) / Exigence(s) de voyage : No travel requirement under this Task Authorization. Work Location(s) / Lieu(x) de travail : 333 North River Road, Ottawa, Ontario K1A OLB or an alternative CBSA location in the NCA. PART 2 (completed by the Contractor and/or the Toubricks/Project Authority.) / PARTIE 2 (completed part of Contractors en/or to Respond to entropy or a Contractor of Contractors or Contr A. Contractor Resource(s) / Ressource(s) du Contracteur

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Page 1 of 2

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### TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

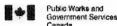
Name / Nom	Category / Catégorie	Level / Niveau			PWGSC Security File No. / Nº du dossier de sécurité TPSGC	
	Programmer/Software Developer     Specialty in IBM Master Data     Management (MDM) - Java     development	3	English / Anglais	Secret	1025681	+

Category / Catégorie	Level / Niveau	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Cost / Coût estimatif
grammer/Software Developer - Specialty BM Master Data Management (MDM) - Java development	3			\$474,000.00
			Estimated Cost / Coût estimatif	\$474,000.00
Total i	Estimated Trav	el and Living Cost / Coût tota	l estimatif de voyage et de vie	\$0.00
Taxe % applied / % de taxes appliquées	13.000	Applic	\$61,620.00	
		Total Estim	ated Cost / Coût total estimatif	\$535.620.00

### PART 3 - TA APPROVAL BY CANADA / PARTIE 3 - APPROBATION DE L'AT PAR LE CANADA

By signing this TA, the authorized cliest authority and/or icertifylies) that the content of this YA is in accordance wi		En apposent se signature sur EAT, le client autori- attesteint) que le contenu de cette AT est confor	
The client's authorization limit is \$300,000.60. When the (including GST/HST) is in excess of this limit, the TA must forwarded to the PWGSC Contracting Auchority for authority.	value of a IA and its amendments be signed by the authorized client and	La limite d'autoritation du client est \$300,000.00	. Larsque la valeur de l'AT et ses modifications oit être signée par le cisent autorisé et transmise s
Name of Authorized Caest / Norse du chers autorise PENWARDEN ROBERT  **TORTO   TORTO   Orte	Name of Contracting Authority / Nom de Fautorité contractante.  Villeneuve, Julie 3	Date Digitally signed by Villeneuve, Julie 3 Date: 2019.02.14 08:59:65-05'00'	
Sgrature		Sgnature	

### PART 4-CONTRACTOR SIGNATURE / PARTIE 4-SIGNATURE DU CONTRACTEUR



(ART) and a company of the same of the sam	union (PART	ET magazia	a Parponsable seeka Japa / Caarg	Sit phojets		
A. General Information / Infor	mations génér	ales				
Contract Number / Numéro du cont	trat : 47060-152	:116/002/EL				
Contractor Name / Nom du Contrac	teur : Donna Co	nna Inc.				
Task Authorization (TA) No. / No de l'autorisation de tâches (AT) :			Date of Issuance / D d'émission :		onse required by / onse requise par :	
2019002452	1000339847	19	92040060-6001-34210	Jan 21, 2019	Jan 2	3, 2019
B. For Amendments Only / Au	x fins de modif	ication seule	ment			
Amendment No. / № de la modifica	tion:					
Reason for the Amendment / Raiso	n pour la modific	ation :				
					en de la companya de la companya de la companya de la companya de la companya de la companya de la companya de	
L						
C. TA Requirements / Exigence	es relatives à l'/	<u>/T</u>				
Required Resource(s) / Ressource(s)	requise(s)	<u> </u>	·		4	
Category / Catégorie Le		Level / Niveau	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Linguistic Profile / Profile linguistique		vel(s) of Security / sécurité requis
Programmer/Software Developer - Master Data Management (M development	3		English / Anglais	Secret	T.	
Statement of Work (tasks, deliverab	oles, reports, etc.)	/ Énoncé des tr	avaux (tâches, livrables	, rapports, etc.)		-
See attached.						
l Period of Services / Période de ser	rvice:					
Initial Start Date / Date de début Init	tiale : Jan	24, 2019	Initial End Da	te / Date de fin initiale :	May	/ 31, 2019
Extented End Date (See Reason for t	he Amendment)	/ Date de fin pr	olongée (voir Raison po	our la modification) ;		
Option To Extend Initial End Dat	te / Option pour p	rolonger la dat	e de fin initiale			
Travel Requirement(s) / Exigence(s)	de voyage :	No travel re	quirement under this 1	Fask Authorization.		
Work Location(s) / Lieu(x) de travail	:	333 North I	River Road, Ottawa, Ont	ario K1A OL8 or an alterna	ive CBSA loca	ation in the NCR.
Could be sent to be some and	a lastic property	/PAST	EZ (company par la contracto	Çê Bîvêyî le lîdî sewnî alde beriyakça ê Cîs	egédu projet)	
A. Contractor Resource(s) / Res	source(s) du C			suivantes peuvent fournir des services s	I4 AT	

Travalix publics at Services gouvernamentalix Canada

## TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

Name / Nom	Lategory / Categorie I		Level / Niveau	_	stic Profile / linguistique	Level of Securi de sécurité		PWGSC Security File No. / Nº du dossier de sécurité TPSGC		
	Special Manag	ty in IBM Master	er/Software Developer - In IBM Master Data ment (MDM) - Java evelopment  English / Anglais Secret			1025681	+			
. Estimated Cost / Coût	t estima <u>tif</u>				**************************************	***************************************				Minimum
[]	,	Level /	Per Die	m Rate / 1	aux		Level of Effort	Total Cos	t / Coût	

Estimated Cost / Coût estimatif			Estimated Laurah of Effort	
Category / Catégorie	Level / Niveau	Per Diem Rate / Taux jour <b>n</b> alier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Cost / Coût estimatif
+ grammer/Software Developer - Specialty BM Master Data Management (MDM) - Java development	3	- The same of the		\$144,175.00
		f	Estimated Cost / Coût estimatil	\$144,175.00
Total E	stimated Trav	rel and Living Cost / Coût tota	al estimatif de voyage et de vie	\$0.00
Taxe % applied / % de taxes appliquées	13.000	Applio	\$18,742.75	
•		Total Estima	ated Cost / Coût total estimatif	\$162,917.75

### PART 3 - TA APPROVAL BY CANADA / PARTIE 3 - APPROBATION DE L'AT PAR LE CANADA

By signing this TA, the authorized client authority and/or the PWGSC Contracting Authority certifyces) that the content of this IA is in accordance with the conditions of the Contract.	En apposant sa signature sur l'AT, le client autorisé et/ou l'autorité contractante de TPSGC atteste(nt) que le contenu de cette AT est conforme aux conditions du contrat.				
The client's authorization limit is \$300,000.00. When the value of a TA and its amendments lincluding GST/HST) is in excess of this limit, the TA must be signed by the authorized client and lorwarded to the PWGSC Contracting Authority for authorization.	La limite d'autorisation du client est \$300,000.00 . Lorsque la valeur de l'AT et ses modifications (incluant la TPS/TVH) dépasse cette limite, l'AT doit être signée par le client autorisé et transmise à l'autorité contractante de TPSGC pour autorisation.				
Name of Authorized Client: Norn du chent autorise Date    Continue   Continue   Date   Name of Contracting Authority / Nom de l'autorité contractante	Date				
Signature F. J. www.	Signature				

### PART 4 - CONTRACTOR SIGNATURE / PARTIE 4 - SIGNATURE DU CONTRACTEUR

MARK COLDHAM A CCOUNTREP	March	01/28/1019
Name and Title of individual authorized to sign on behalf of the Contractor / Nom et titre cle la personne autorisée a signer au nom de l'entrepreneur	Signature	Date ( 1019



A. General Information / Infor	mations génér	ales			
Contract Number / Numéro du con	trat: 47060-152	1116/002/EL			
Contractor Name / Nom du Contrac	teur : DONNA C	DKA INC.			
Task Authorization (fA) No. / № de l'autorisation de tâches (AT) :	Commitment N l'engagement :		inancial Coding / Code nancier :	Date of Issuance / D d'émission :	ate Response required by / Réponse requise par :
20190002714 100034			92040060/6001/16100	Jul 8, 2019	Jul 12, 2019
B. For Amendments Only / Au	x fins de modif	ication seule	ment		
unendment No. / Nº de la modifica	tion: 1				
Reason for the Amendment / Raiso	n pour la modific	ation :			
Amendment #1 is being rassed to r	evise the level of	effort by addin	g days.		
C. TA Requirements / Exigenc	es relatives à l'	AT			
Required Resource(s) / Ressource(s)	requise(s)				
Category / Catégorie Level / P			Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Linguistic Profile / Profile linguistique	Required Level(s) of Security / Niveau(x) de sécurité requis
Application/Software Architect - S Master Data Management (MDM) 5		3		English / Anglais	Reliability / Fiabilite
Statement of Work (tasks, deliveral		/ Enoncé des 1	ravaux (táches, livrable:	s, rapports, etc.)	
See Affached Annex A - Statement	of Work.				
Period of Services / Période de se					
nitial Start Date / Date de début in:		rril 1, 2019	Initial End Da	ste / Date de fin initiale :	February 23, 2020
Extented End Date (See Reason for	the Amendment	/ Date de fin p	oralongée (voir Raison p	our la modification) :	
Option To Extend Initial End Da	te / Option pour	prolonger la di	ste de fin initiale		
fravel Requirement(s) / Exigence(s)	de voyaga :	No			
Vork Location(s) / Lieu(x) de travail		333 North Capital Re		stario, KTA 01.8 or an altern	ative CBSA location in the Nation
			rif a		
PART 2 Comments to the Comment and the	the Technical Tropics Au	Control of PAN	FIE Z Complete park Commo	acceptocal Report Alle (et algor) C	range du projeti

Page 1 of 2

* •	/ 1 1 1 V I V II .	~********		~ : : :	*****	2 70 1 2 10		g man nav		
Name / Nom	Name / Nom Category / Catégor		rie	Level / Niveau		stic Profile / linguistique	Level of Securit de sécurité	y / Niveau	PWGSC Security File No. / N° du dossier de sécurité TPSGC	
	Specialty	/Software Ar in IBM Maste nent (MDM) S	r Data	3	Englis	sh / Anglais	Reliability / Flat	silité	95841252	
B. Estimated Cost / Coût e	stimatif				***************************************					
Category / Catégo	ř.	Level / Niveau	1 7 7 1 1 7	m Rate / I	Taux	(days) / N	Level of Effort iveau d'effort atif (jours)	Total Cor estimatif		
# Blication/Software Architec (BM Master Data Management (MDM) !		3				s;	225,000,00			
					F	stimated Cos	t / Coût estimatif	f \$225,000.00		
	Total i	istimated Trav	vel and Livin	g Cost / C	Cour tota	i estimatif de	voyage et de vie	e \$0,00		
Taxe % applied / % de ta	xes appliquées	13.000 Applicable Taxes / Taxes applicable						5	29,250.00	
				Tot	al Estima	ited Cost / Co	üt total estimatif	\$	254,250.00	
PART 3 - TA APPROVA	L BY CANA	DA / PART	ΓΙΕ 3 - AP	PROB/	ATION	DE L'AT P	AR LE CANA	ADA	Carrier (1978)	W.
By agoing the "A the authorized Cheft configures that the confert of this TA is				Ling	posabl sá si	ignature sur PAT.	le client autorisé eVo « All est conforme »:	u řavšořilé () a conditions (	intractante de IPSSC la contrat.	
The client's authorization firm it is \$300.0 goods along GSTHST in the respect of this is forwarded to the PWGC Commanding A Jordan Komery	00 00 I. When the val boil, the TAmust be:	ue of a TA and its lighed by the aud	amendments	Lalim nd (inde	ite d'autori ant la TPS/I	sation du client e 'Yri) dépasse cet	st \$300,000.00 . Lone	gue la valeur i	is fAT at was modificati giant autorivé et trans	ars Joha 1
Name of Authorized Client / Morn day KOMERY JORDA			Y JORDAN -04'00'	faeto	rité contra	ting Authority († Baris	ion de	Dar		
Signature				Signa	ture					
PART 4 - CONTRACTO	R SIGNATU	RE / PART	'IE 4 - SIG	NATUI	RE DU	CONTRA	CTEUR			
MARK COLOHO Name and Title of Individual authurize de la personte autonsée à signer au r	ed to sign on hehelf i				1/4	ÚL.		Cate		

Page 2 of 2



Travaux publics et Services gouvernementaux Canada

## TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

PART 1 (completed by the Technical/Project Authority) / PARTIE 1 (complete par le Responsable technique / Chargé du projet)

*					
A. General Information / Informations	<u>jénérales</u>				
Contract Number / Numéro du contrat :	47060-152116/002/E	L			
Contractor Name / Nom du Contracteur :	DONNA CONA INC	<b>).</b>			
Task Authorization (TA) No. N° de l'autorisation de tâches (AT) :	Commitment No. N° de l'engagement :	Financial C Code finan	•	Date of Issuance Date d'émission :	Response required by Réponse requise d'ici le :
20190002714	1000346181	1920400060/6001/10400 Jan 18, 2020		29-Jan-2020	
B. For Amendments Only / Aux fins de	modification seulem	ent		·	
Amendment No. / Nº de la modification :	2				
Reason for the Amendment / Raison pour la m	odification :				
Amendment #1 is raised for the following: 1) Extend end date from February 23, 202	20 to February 23, 202 ays total estimated lev	el of effort;			
C. TA Requirements / Exigences relative	/es à l'AT				
Required Resource(s) / Ressource(s) requise(s	s)				
Category and Level Catégorie et Niveau		Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	-	: Profile / Profile guistique	Required Level(s) of Security / Niveau(x) de sécurité requis
Application/Software Architect - Specialty Management (MDM) Se Level 3			Englis	sh / Anglais	
Statement of Work (tasks, deliverables, reports	s, etc.) / Énoncé des trav	aux (tâches, livrable	s, rapports, et	c.)	
See attached / Voir pièce jointe					
Period of Services / Période de service:					
Initial Start Date / Date de début initiale :	01-Apr-2019	Init	tial End Date /	Date de fin initiale :	23-Feb-2021
Extented End Date (See Reason for the Amend	dment) / Date de fin prol	ongée (voir Raison p	our la modific	ation):	
☐ Option To Extend Initial End Date / Option	pour prolonger la date d	le fin initiale			
Optional End Date(s) / Date(s) de fin	optionnelle(s)		Sta	itus / Statut	
х			O In E	ffect / en vigueur	
Travel Requirement(s) / Evigence(s) de voyant	n/a				

Work Lo	ocation(s)	/ Lieu(x)	de travail
---------	------------	-----------	------------

333 North River Road, Ottawa, Ontario, K1A 0L8 or an alternative CBSA location in the National Capital Region

Digitally signed by: Michaud,
Daniel
DN: CN = Michaud, Daniel C = CA
0 = GC OU = PWGSC-TPSGC
Date: 2020.04.06 12:25:47 -04'00'

PART 2 (completed by the Contractor and/or the Technical/Proje	ct Authority) / PARTIE 2 (c	omplété par le Contracteur et/ou	le Responsable techn	lique / Chargé du projet)		
Contractor Resource(s) and Estimated Note: once approved, only the following resources may provide services or					***************************************	
Name / Nom Category and Level / Catégorie et Niveau	PWGSC Security File No. / Nº du dossier de sécurité TPSGC	Linguistic Profile / Profil linguistique	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Estimated Cost / Coût total estimatif	
Application/Software Architect - Specialty in IBM Maaster Data Management (MDM) Server		English/Anglais			\$495,000.00	
			Estimated	L Cost / Coût estimatif	\$495,000.00	
7	Total Estimated Travel an	nd Living Cost / Coût	total estimatif	i de voyage et de vie	\$0.00	
Taxes % applied # % taxes appliquées	; 13	Applicable Taxes / 1	\$64,350.00			
		Total Estir	mated Cost /	Coût total estimatif	\$559,350.00	
Check applicable Basis of Pa Cocher la Base de Paiement ap		Maximum Price / Prix Maximum :		Firm Price / Prix Ferme :		
PART 3 - TA APPROVAL BY CANA	* *	* . *			sitt contractante de	
By signing this TA, the authorized client authority and Authority certify(ies) that the content of this TA is in acconditions of the Contract.	_			cette AT est conforme au		
The client's authorization limit is \$150,000 When the	value of a TA and its	La limite d'autorisation modifications	du client est 150	0,000 \$. Lorsque la valeu	ır de l'AT et ses	
amendments (excluding Applicable Taxes) is in excess of this limit, the TA must						
Name of Technical Authority / Nom de l'autorité techn	i Date	Name of Contracting A	uthority / Nom d	le l'autorité contractante	Date	

PART 4 - CONTRACTOR SIGNATURE / PARTIE 4 - SIGNATURE DU CONTRACTEUR

Digitally signed by DAROUZE TONI

-04'00'

Date: 2020.03.31 07:45:06

**DAROUZE** 

**TONI** 

Signature

MARK OLD HAM	mbuch	Feb 24,2020
Name and Title of individual authorized to sign on behalf of the Contractor / Nom et titre Signature de la personne autorisée à signer au nom de l'entrepreneu	Signature	Date

Michaud,

Daniel

Signature



Travaux publics et Services gouvernementaux Canada

## TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

PART 1 (completed by the Technical/Project Authority) / PARTIE 1 (complete par le Responsable technique / Chargé du projet)

A. General Information / Informations g	iénérales				
Contract Number / Numéro du contrat :	47060-152116/002/EI	L			
Contractor Name / Nom du Contracteur :	DONNA CONA INC				
Task Authorization (TA) No.  Nº de l'autorisation de tâches (AT) :	Commitment No. N° de l'engagement :	Financial Coding Code financier :		Date of Issuance Date d'émission :	Response required by Réponse requise d'ici le :
20190002714	1000346181	1920400060/60	001/10400	Jan 18, 2020	29-Jan-2020
B. For Amendments Only / Aux fins de	modification seulem	ent			
Amendment No. / Nº de la modification :	3				
Reason for the Amendment / Raison pour la m	odification :				
Amendment # is raised for the following:  1) To replace resource	S. J.				
C. TA Requirements / Exigences relative					
Required Resource(s) / Ressource(s) requise(	s)	Estimated Level of			
Category and Level Catégorie et Niveau	- ·		Linguistic Profile / Profile linguistique		Required Level(s) of Security / Niveau(x) de sécurité requis
Application/Software Architect - Specialty Management (MDM) Se Level 3	nent (MDM) Server English / Anglais				
Statement of Work (tasks, deliverables, report	s, etc.) / Énoncé des trav	aux (tâches, livrables	s, rapports, etc	c.)	
See attached / Voir pièce jointe					
Period of Services / Période de service:					
Initial Start Date / Date de début initiale :	01-Apr-2019	lni <sup>.</sup>	tial End Date	/ Date de fin initiale :	23-Feb-2021
Extented End Date (See Reason for the Amen	dment) / Date de fin prolo	ongée (voir Raison p	our la modific	ation):	
☐ Option To Extend Initial End Date / Option	n pour prolonger la date d	de fin initiale			
Optional End Date(s) / Date(s) de fir	optionnelle(s)		Sta	atus / Statut	
Х		O In Effect / en vigueur			
Traval Paguirament(a) / Evigenes(a) de veves	n/a				
Travel Requirement(s) / Exigence(s) de voyag  Work Location(s) / Lieu(x) de travail :		er Road, Ottawa, On in the Na	tario, K1A 0L8 tional Capital		3SA location

PART 2 (completed by the Contractor and/or the Technical/Project	t Authority) / PARTIE 2 (co	omplété par le Contracteur et/ou l	e Responsable techni	que / Chargé du projet)	
Contractor Resource(s) and Estimated Note: once approved, only the following resources may provide services un					
Name / Nom Category and Level / Catégorie et Niveau	PWGSC Security File No. / Nº du dossier de sécurité TPSGC	Linguistic Profile / Profil linguistique	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Estimated Cost / Coût total estimatif
- Terminated 2020-05-04 Application/Software Architect - Specialty in IBM Maaster Data Management (MDM) Server		English/Anglais		000000000000000000000000000000000000000	\$206,550.00
- Active 2020-05-14  Application/Software Architect - Specialty in IBM Maaster Data Management (MDM)  Server		English/Anglais			\$288,450.00
			Estimated	Cost / Coût estimatif	\$495,000.00
7	Total Estimated Travel ar	nd Living Cost / Coût	total estimatif	de voyage et de vie	\$0.00
Taxes % applied # % taxes appliquées	13	Applicable Taxes / 1	axes applicat	oles	\$64,350.00
		Total Estir	nated Cost /	Coût total estimatif	\$559,350.00
Check applicable Basis of Pa Cocher la Base de Paiement ap	•	Maximum Price / Prix Maximum :		Firm Price / Prix Ferme :	
Authority certify(ies) that the content of this TA is in acconditions of the Contract.  The client's authorization limit is \$150,000. When the amendments (excluding Applicable Taxes) is in excess the signed by the authorized client and forwarded to the Authority for authorization.	value of a TA and its ss of this limit, the TA must	La limite d'autorisation modifications (excluant les taxes app	du client est 15	cette AT est conforme au 0,000 \$. Lorsque la vale se cette limite, l'AT doit lictante de TPSGC pour	ur de l'AT et ses être signée par le client
Name of Technical Authority / Nom de l'autorité techn Digitally signe DAROUZE TONI TONI Date: 2020.05. -04'00'	d by DAROUZE	Name of Contracting A contractante  CASTO  KARIE  Signature	NGUA	Digitally signed by CASTONGUA DN: C=ca, O=gc, OU=ccra-adrc, SERIALNUMBER=20190581127/ KARIEANNE Passon: I am appropriate this docu	Date  Y KARIEANNE DUFFERSONNEL. 01000 + ON=CASTONGUAY ment with my legally binding signature
PART 4 - CONTRACTOR SIGNATU  Mark Coldham  Account Executive	RE / PARTIE 4 - SI	GNATURE DU C	CONTRAC		05-14
Name and Title of individual authorized to sign on bel Nom et titre Signature de la personne autorisée à sign 'entrepreneur		Signature Signature			Date



Travaux publics et Services gouvernementaux Canado

### TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

PART 1 (completed by the Technical/Project Authority) / PARTIE 1 (complété par le Responsable technique / Chargé du projet)

A. General Information / Informat	ions généra	ales									
Contract Number / Numéro du contrat :	47060-152	116/002/EL									
Contractor Name / Nom du Contracteur	DONNA CO	ONA INC.									
Task Authorization (TA) No. / Nº Commitment No. / Nº de de l'autorisation de tâches (AT) : l'engagement : financial Coding / Code d'émission : Réponse required by / Réponse requise par :											
20190002714	00346181		.92040060/6001/16100	February 11, 2019	February 15, 2019						
B. For Amendments Only / Aux fins	s de modific	cationseule	ment								
Amendment No. / Nº de la modification	*										
Reason for the Amendment / Raison por	ur la modifica	ation :									
C. TA Requirements / Exigences re	latives à l'A	T									
Required Resource(s) / Ressource(s) requ	ise(s)										
Category / Catégorie	Level / Niveau	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Linguistic Profile / Profile linguistique	Required Level(s) of Security / Niveau(x) de sécurité requis							
Application/Software Architect - Specia Master Data Management (MDM) Server	ilty in IBM	3		English / Anglais	Reliability / Fiabilité						
Statement of Work (tasks, deliverables, r	eports, etc.) ,	/ Énoncé des t	ravaux (tāches, livrables,	, rapports, etc.)							
See Attached Annex A - Statement of Wo	ork.										
Period of Services / Période de service	•	······································									
Initial Start Date / Date de début initiale :		il 1, 2019	Initial End Dat	te / Date de fin initiale :	February 23, 2020						
Extented End Date (See Reason for the A	mendment) /	Date de fin p	rolongée (voir Raison po	our la modification) :							
Option To Extend Initial End Date / O	ption pour p	rolonger la da	te de fin initiale		8						
Travel Requirement(s) / Exigence(s) de vo	oyage :	No									
Work Location(s) / Lieu(x) de travail :		333 North Capital Re		tario, K1A OL8 or an alterna	tive CBSA location in the National						
PART 2 (completed by the Contractor and/or the Tec	hnical/Project Auth	ority) / PART	TE 2 (complété par le Contract	eur et/ou le Responsable technique / Cha	argé du projet)						
A. Contractor Resource(s) / Ressou	(-\ d.: C.	~~***************									



Travaux pulxics et Services gouvernementaux Canade

### TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

Name / Nom	Category / Catégorie	Level / Niveau	Linguistic Profile / Profile linguistique	Level of Security / Niveau	PWGSC Security File No. / Nº du dossier de sécurité TPSGC	
	Application/Software Architect - Specialty in IBM Master Data Management (MDM) Server	3	English / Anglais	Reliability / Fiabilité	95841252	<b>+</b>

EstimatedCost/Coûtestimatif  Category / Catégorie	Level / Niveau	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Cost / Coût estimatif	
lication/Software Architect - Specialty in IBM Master Data Management (MDM) Server	3			\$90,000.00	
	\$90,000.00				
Total I	Estimated Trav	el and Living Cost / Coût tota	l estimatif de voyage et de vie	\$0.00	
Taxe % applied / % de taxes appliquées	% applied / % de taxes appliquées 13.000 Applicable Taxes / Taxes applicables				
	\$101,700.00				

### PART 3 - TA APPROVAL BY CANADA / PARTIE 3 - APPROBATION DE L'AT PAR LE CANADA

	En apposant sa signature sur l'AT, le client autorisé et/ou l'autorité contractante de TPSGC atteste(nt) que le contenu de cette AT est conforme aux conditions du contrat.				
st be signed by the authorized client and	La limite d'autorisation du client est \$300,000.00 (incluant la TPS/TVH) dépasse cette limite, l'AT do l'autorité contractante de TPSGC pour autorisatio	It être signée par le client autorisé et transmise à			
Date	Name of Contracting Authority / Nom de	Date			
	or the PWGSC Contracting Authority with the conditions of the Contract.  the value of a TA and its amendments st be signed by the authorized client and horization.  Date	with the conditions of the Contract.  atteste(nt) que le contenu de cette AT est conforme value of a TA and its amendments st be signed by the authorized client and horization.  La limite d'autorisation du client est \$300,000.00 (incluant la TPS/TVH) dépasse cette limite, l'AT do l'autorité contractante de TPSGC pour autorisation.  Date  Name of Contracting Authority / Nom de			

### PART 4 - CONTRACTOR SIGNATURE / PARTIE 4 - SIGNATURE DU CONTRACTEUR

Name and Title of individual authorized to sign on behalf of the Contractor / Nom et titre de la personne autorisée à signer au nom de l'entrepreneur	MARK COLDHAM	Mall	feb 12, 2019	
		Signature	Date	

1000346181-2019002714

## STATEMENT OF WORK ANNEX A

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Canada Border Services Agency requires one (1) Application/Software Architect - Specialty in IBM Master Data Management (MDM) Server Background Level 3

#### Background:

The Canada Border Services Agency (CBSA) is undertaking an ambitious agenda of change in support of various Beyond the Border initiatives and Border modernization efforts. The Information, Science and Technology Branch (ISTB) support these efforts with oversight and alignment of major capital projects and the associated information technology solutions. Traditional IT functions have been augmented with program directorates that drive business transformation efforts and alignment of business solutions in portfolios for Travelers, Commercial, Common and Corporate projects.

To advance the planning, development and implementation of the Agency's transformation agenda, ISTB is implementing an enterprise approach to the management of its portfolio of systems, projects and services.

In support of the above, the Common Services Portfolio Directorate (CSPD) has undertaken the Master Data Management Service (MDMS), to put in place an Enterprise Building Blocks that can be leveraged by other initiatives including the Entry/Exit (E/E), BioMetrics and UPASS projects. The delivery of the Entry/Exit project is dependent on successful delivery of the foundational components found in MDMS.

### Objective:

To acquire professional services for one (1) Application/Software Developer Level 3 to perform the tasks and deliverables below.

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#### Tasks and Deliverables:

The Contractor must provide the professional services to perform the following tasks and deliver the following project deliverables, first in draft format, to be followed by a final product incorporating comments of the CSPD project manager (or their delegates).

#### Tasks

Provide CBSA with technical expertise and guidance on the following topics:

- Develop industry best practices in performance tuning, load balancing and optimization;
   strategies for IBM InfoSphere MDM Server environment;
- Provide weekly scheduled knowledge transfer sessions to CBSA application support team;
- Develop best practices for IBM MDM implementation;
- Review and comment on MDM and other CBSA Data sources data mapping;
- Review and comment on MDM data mapping and MDM business functional requirement;
- Review and comment on CBSA non-functional requirements;
- Provide adhoc assistance and guidance to the MDM development team;
- Prepare test cases and provide input to test plans to validate final designs in collaboration with the CBSA test coordinator(s);
- Provide guidance to the project manager for HR planning;
- Configure MDM security frameworks and integration with CBSA security policy and identity stores;
- Review and comment on MDM performance tuning; and
- Follow InfoTrellis assessment methodology to review CBSA's cloud strategy;
- Review overall MDM architecture and identify alignments/gaps against CBSA's objective;
- Review already implemented integrations and the approach;
- Review key integration concerns, issues, and errors;
- Meetings with CDI consumers where applicable;

#### Deliverables:

The Contractor shall provide the following:

- Contractor will deliver the summary document identifying alignments/gaps against CBSA's Architecture objective within 4 weeks of start date;
- Produce and/or update MDM, and DPLS ICDs by end of TA;
- Review and update as required, MDM components detailed design document. Architecture Design Specification (ADS) parts 3 & 4 documents for CDR by end of TA;
- Provide review and comments on already implemented integrations and its approach within 4
  weeks of start date;
- Provide review and comments on key integration concerns, issues, and errors within 4 weeks of start date;
- Review key HL integration concerns and map new integrations and find HL functionality gaps by April 30, 2019;
- Identify migration approach to meet CBSA's strategic & tactical needs by May 31, 2019;
- Determine roadmap to migrate MDM solution system by June 30, 2019.

All deliverables must be provided in conformance with CBSA's standard desktop operating software which is Microsoft Office Suite (including Word, Excel, Visio and PowerPoint) and Archimate in English.

All deliverables must be provided in a manner that permits integration with CBSA's technical and operational environment as specified by the Project Authority. All deliverables must be in the format of or compatible with the (SLMF) Service Life Cycle Management Framework.

All deliverables must be provided to the Project Authority for their review and acceptance. Should there be problems or issues with the deliverables being presented, the Project Authority will notify the resource of the items that must be modified within five (5) business days of receipt of the deliverable.

**Technical Environment** 

As defined in Section 12 of the contract number 47060-152116/002/EL.

#### Constraints

At no time and in no way is CBSA data to be removed from CBSA sites, nor will access to or from the Contractor's IT systems through the use of a session or ling (e.g. VPN) be permitted. The contractor must comply with CBSA internal security policies, directives, standards, and guidelines at all times during the contract.

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The CBSA's working hours are between 07:00 to 18:00 Monday through Friday, except for Statutory Holidays where Government Offices are closed. These are core hours and are not representative of the duration of a Contractor's work day.

#### Language

The proposed Resource will be required to perform the work in English. Every individual proposed in its bid will be fluent in English. The individual proposed must be able to communicate orally and in writing in English without any assistance and with minimal errors.

#### Reporting Requirements

If a TA has been authorized, the resource must provide a weekly status report in MS Word electronically to the Project Authority outlining what work was undertaken during the reporting period, what work is still outstanding, and any issues or concerns that the resource wants to identify to the attention of the Project Authority. The status reports must also be supported by a monthly detailed time sheet mapped to deliverables, using standard template.

### Location of Work

The work is expected to be performed on CBSA premises located at 333 North River Road, Ottawa, Ontario, K1A 0L8 or an alternative CBSA location in the National Capital Region. There is no travel requirement under this Task Authorization.

### **Client Support**

The contractor will be provided with a CBSA user ID, password, workstation and e-mail address and other materials (supporting documentation) as required. CBSA will provide each resource with a building access pass, network account when working in CBSA premises.

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### **TASK AUTHORIZATION FORM** FORMULAIRE D'AUTORISATION DE TÂCHES

PART 1 (completed by the Technical Project Authority) / PARTIE 1 (complete not be Recognishle technique / Charad du project

A. General Information / Informa	ations génér	ales				
Contract Number / Numéro du contrat	t: 47060-152	116/001/EL				
Contractor Name / Nom du Contractei	ur : IBM	eren eren eren eren eren eren eren eren	r sammer mer gamen vagan regionerings scores vers en en en den der verbeliere de des viere de 18 et de 18 et d			
, ,	ommitment No engagement :		nancial Coding / Code nancier :	Date of Issuance / D d'émission :	ate Response required b Réponse requise par	,
2019003062	000335563	19	1160010	June 1, 2019	June 28, 2019	
B. For Amendments Only / Aux fi	ins de modif	ication seule	ment			
Amendment No. / Nº de la modificatio	n : 1					
Reason for the Amendment / Raison p	oour la modific	ation :			aga aman'an' na kaokantan' ao amin'ny faritr'i Nord-Marie Carlos (no de la carlos (no de la carlos (no de la c	
Time extension			organisticinen naponing applemation, guitar organisticiti until di sinte di siste di siste di siste di siste d			
C. TA Requirements / Exigences	relatives à l'/	<u>\T</u>				
Required Resource(s) / Ressource(s) re	quise(s)	· · · · · · · · · · · · · · · · · · ·			T	1
Category / Catégorie Level		Level / Niveau	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Linguistic Profile / Profile linguistique	Required Level(s) of Security Niveau(x) de sécurité requis	
Application/Software Architect - spe Integration Bus (IIB) - Enterprise Serv		3		English / Anglais	Secret	
Statement of Work (tasks, deliverables	s, reports, etc.)	/ Énoncé des tra	avaux (tâches, livrables	s, rapports, etc.)		
Please see the attached SOW for detail	ils pertaining to	the work bein	g completed under thi	is task authorization.		
Period of Services / Période de servi	ce:					<b>Person</b> - <b>Person</b>
Initial Start Date / Date de début initial	le: Apr	ril 6, 2017	Initial End Da	te / Date de fin initiale :	May 31, 2019	
Extented End Date (See Reason for the	Amendment)	/ Date de fin pr	olongée (voir Raison p	our la modification) :	June 28, 2019	
Option To Extend Initial End Date	Option pour p	orolonger la dat	e de fin initiale			
Travel Requirement(s) / Exigence(s) de	voyage :	N/A				
Work Location(s) / Lieu(x) de travail :		333 North F	River Road, Ottawa, ON	l (National Capital Region)		
PART 2 (completed by the Contractor and/or the	+ 32 10	/DART	E 2	Paris Paris Control of the Control o	Signature project	
FART & (completed by the Contractor and/or the	rechnical/Project Aut	nority) / FANII	(complété par le Contracti	eur etrou le Responsable technique / Ch	arge ou projet)	



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### **TASK AUTHORIZATION FORM** FORMULAIRE D'AUTORISATION DE TÂCHES

Name / Nom	Category / Catégorie	Level / Niveau	, ,	Level of Security / Niveau de sécurité	PWGSC Security File No. / Nº du dossier de sécurité TPSGC	
	Application/Software Architect - specialty in IBM Integration Bus (IIB) - Enterprise Service Bus (ESB)	3	English / Anglais	Secret	93080390	+

·		.,				
Level / Niveau	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Cost / Coût estimatif			
			\$96,250.00			
Estimated Cost / Coût estimation						
Total Estimated Travel and Living Cost / Coût total estimatif de voyage et de vie						
13.000	Applio	\$12,512.50				
Total Estimated Cost / Coût total estimati						
	Niveau  3 al Estimated Trav	Niveau journalier  3 al Estimated Travel and Living Cost / Coût total 25 13.000 Applie	Level / Niveau   Per Diem Rate / Taux   (days) / Niveau d'effort   estimatif (jours)    1			

### PART 3 - TA APPROVAL BY CANADA / PARTIE 3 - APPROBATION DE L'AT PAR LE CANADA

En apposant sa signature sur l'AT, le client autorisé et/c atteste(nt) que le contenu de cette AT est conforme au	
Name of Contracting Authority / Nom de l'autorité contractante	Date
Signature	
	atteste(nt) que le contenu de cette AT est conforme au La limite d'autorisation du client est \$1,200,000.0 crs (incluant la TPS/TVH) dépasse cette limite, l'AT doit être l'autorité contractante de TPSGC pour autorisation.  Name of Contracting Authority / Nom de l'autorité contractante

Name and Title of individual authorized to sign on behalf of the Contractor / Nom et titre de la personne autorisée à signer au nom de l'entrepreneur	Signature	Date

RALITE 1 (completed by the Technical Product)	Authority / PART	IE 1 kompleté pa	r je Responsable technique / Charge	i du projet)		
A. General Information / Infor	mations géné	<u>rales</u>				
Contract Number / Numéro du con	trat : 47060-15	2116/001/EL				
Contractor Name / Nom du Contrac	teur : IBM					
Task Authorization (TA) No. / No de l'autorisation de tâches (AT) :	Commitment N		inancial Coding / Code inancier :	Date of Issuance / D d'émission :	ate Response requis	
2019003062	1000335563	[1	950-500-20	Mar 20, 2019	Mar 25, 2019	
B. For Amendments Only / Au	x fins de modi	fication seule	ement			
Amendment No. / Nº de la modifica	ntion :					
Reason for the Amendment / Raiso	n pour la modifi	cation :				
C. TA Requirements / Exigence	es relatives à l	AT				
Required Resource(s) / Ressource(s)	requise(s)	<u> </u>				
Category / Catégori	e	Level / Nivea	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Linguistic Profile / Profile linguistique	Required Level(s) of Se Niveau(x) de sécurité re	
Application/Software Architect - s Integration Bus (IIB) - Enterprise So		3		English / Anglais	Secret	+
Statement of Work (tasks, deliverab	oles, reports, etc.	) / Énoncé des t	travaux (tâches, livrables	s, rapports, etc.)		
Please see the attached SOW for de	etails pertaining	to the work bei	ng completed under thi	s task authorization.		
Period of Services / Période de se	rvice:			<u> </u>		
Initial Start Date / Date de début ini	tiale :	ar 25, 2019	Initial End Da	te / Date de fin initiale :	May 31, 2019	
Extented End Date (See Reason for	the Amendment	) / Date de fin p	orolongée (voir Raison p	our la modification) :		
Option To Extend Initial End Da	te / Option pour	prolonger la da	ate de fin initiale	'		
Travel Requirement(s) / Exigence(s)	de voyage :	N/A				
Work Location(s) / Lieu(x) de travail	:	333 North	River Road, Ottawa, ON	(National Capital Region)		
PART I completed by the Completon english	the Technical/Project A	nsoriny) / PAR	TE 2 (complété par le Contract	eur et/ou le Résponsable technique / Ch	sigé du projet	
A. Contractor Resource(s) / Re			ois approuvée, seules les ressources	suivantes peuvent fournir des services s	sous la présente AT.	

Name / Nom	Category / Catégorie  Application/Software Archite ct -		Level / Niveau	-	istic Profile / linguistique	Level of Securit de sécurité	y / Niveau	PWGSC Security File No. / Nº du dossier de sécurité TPSGC	
	specialty in I	n/Software Ar BM Integration ise Service Bus	n Bus (IIB) -	3	Engli	sh / Anglais	Secret		93080390
B. Estimated Cost / Coût e	stimatif							- 4 17 37 11 1	
Category / Catégo	rie	Level / Niveau		m Rate / 1 ournalier	Γaux	(days) / N	Level of Effort iveau d'effort atif (jours)	Total Cos estimatif	
+ dication/Software Architec - Integration Bus (IIB) - Ente Bus (ESB)		3	***************************************					\$	96,250.00
					E	stimated Cos	: / Coût estimatif	\$	96,250.00
	Total	Estimated Trav	vel and Livin	g Cost / C	oût tota	l estimatif de	voyage et de vie		\$0.00
Taxe % applied / % de ta	xes appliquées	13.000			Applic	able Taxes / T	axes applicables	\$	12,512.50
			<del></del>	Tota	al Estima	nted Cost / Co	ût total estimatif	\$1	108,762.50
The client's authorization limit is \$ 1500 including GST/HST) is in excess of this li forwarded to the PWGSC Contracting Ai	authority and/or then accordance with I	e PWGSC Contract the conditions of the lue of a TA and its signed by the auth	ing Authority he Contract. amendments horized client ar	En app atteste La limi	posant sa s e(nt) que le ite d'autori ant la TPS/1	ignature sur l'AT, e contenu de cetto sation du client e	le client autorisé et/o e AT est conforme aux st \$1,200,000.0 calorsc e limite, l'AT doit être	u l'autorité co conditions d	
Name of Authorized Client / Nom du o	lient autorisé D	ate	<b>/</b>		of Contrac ité contrac	ting Authority / N tante	lom de	Date	
Signature			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Signat		W. Jan a Same William	e popular de la compania de la compania de la compania de la compania de la compania de la compania de la comp	of an ingletic leaders	The state of the s
PART 4 - CONTRACTO	R SIGNATU	RE / PART	IE 4 - SIG	NATUF	RE DU	CONTRAC	TEUR		
Mitchell Carkner	- Signing	Authority		m	itch	ell Car	kner	March	19th, 2019



Public Works and Government Services Canada Travaux publics et Services gouvernementaux Canada

### TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

PART 1 (completed by the Technical/Project Authority) / PARTIE 1 (complete par le Responsable technique / Chargé du projet)

	générales		- Carl Branch of	
Contract Number / Numéro du contrat :	47060-152116/001/	one Louis		
Contractor Name / Nom du Contracteur :	IBM			
Task Authorization (TA) No. Nº de l'autorisation de tâches (AT) :	Commitment No. Nº de l'engagement :	Financial Co Code financ		Response required by Réponse requise d'ici le :
2020000349	1000346513	191120030 Jan 28, 2020		28-Jan-2020
B. For Amendments Only / Aux fins d	e modification seuler	ment		
Amendment No. / Nº de la modification :	gi air nais III air 15 to Shiftenea Bi To	energy and the second s		
Reason for the Amendment / Raison pour la	modification :			
1) Extend end date from January 30, 2020 to	January 31, 2021; total estimated level of el	ffort; taxes extra)		
C. TA Requirements / Exigences rela	tives à l'AT			
Required Resource(s) / Ressource(s) requise				
Category and Leve Catégorie et Niveau		Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Linguistic Profile / Profile linguistique	Required Level(s) o Security / Niveau(x) de sécurité requis
Programmer / Software Developer	- Specialty in IBM	(Jours)		
Operation Decision Manager (ODM)  Advanced	Standard and ODM		English / Anglais	Secret
Advanced		vally (tâches livrables	:	Secret
Advanced Statement of Work (tasks, deliverables, repo		vaux (tâches, livrables	:	Secret
Advanced  Statement of Work (tasks, deliverables, repo		vaux (tâches, livrables	:	Secret
Advanced  Statement of Work (tasks, deliverables, repo  See attached / Voir pièce jointe  Period of Services / Période de service:	rts, etc.) / Énoncé des tra	7	rapports, etc.)	
Advanced  Statement of Work (tasks, deliverables, repo  See attached / Voir pièce jointe  Period of Services / Période de service:  Initial Start Date / Date de début initiale :	rts, etc.) / Énoncé des tra	] Initia	rapports, etc.) al End Date / Date de fin initiale	
Advanced  Statement of Work (tasks, deliverables, repo  See attached / Voir pièce jointe  Period of Services / Période de service: Initial Start Date / Date de début initiale :  Extented End Date (See Reason for the Ame	rts, etc.) / Énoncé des tra  03-Jun-2019 endment) / Date de fin pro	Initia Iongée (voir Raison po	rapports, etc.) al End Date / Date de fin initiale	
Advanced  Statement of Work (tasks, deliverables, repo  See attached / Voir pièce jointe  Period of Services / Période de service: Initial Start Date / Date de début initiale :  Extented End Date (See Reason for the Ame	rts, etc.) / Énoncé des tra  03-Jun-2019 endment) / Date de fin pro	Initia Iongée (voir Raison po	rapports, etc.) al End Date / Date de fin initiale	
Advanced  Statement of Work (tasks, deliverables, repo  See attached / Voir pièce jointe  Period of Services / Période de service: Initial Start Date / Date de début initiale :  Extented End Date (See Reason for the Ame	rts, etc.) / Énoncé des tra  03-Jun-2019 endment) / Date de fin pro	Initia Iongée (voir Raison po	rapports, etc.)  al End Date / Date de fin initiale ur la modification):	
Advanced  Statement of Work (tasks, deliverables, repo  See attached / Voir pièce jointe  Period of Services / Période de service: Initial Start Date / Date de début initiale :  Extented End Date (See Reason for the Ame	o3-Jun-2019 endment) / Date de fin pro	Initia Iongée (voir Raison po	rapports, etc.)  al End Date / Date de fin initiale ur la modification):  Status / Statut	

Note: once approved, only the following resources may provide services:	under this to. / redta , the tois approuve				
Name / Nom Category and Level / Catégorie et Niveau	PWGSC Security File No. / N° du dossier de sécurité TPSGC	Linguistic Profile / Profil linguistique	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Estimated Cost / Coût total estimati
Programmer / Software Developer - Specialty in IBM Operation Decision Manager (ODM) Standard and ODM		English			\$746,460.0
Estimated Cost / Coût estimatif					\$746,460.0
Total Estimated Travel and Living Cost / Coût total estimatif de voyage et de vie					\$0.0
	Total Estimated Cost / Coût total estimatif				
Check applicable Basis of Payment / Cocher la Base de Paiement applicable :		Maximum Price / Prix Maximum :		Firm Price / Prix Ferme :	
By signing this TA, the authorized client authority and Authority certify(ies) that the content of this TA is in acconditions of the Contract.  The client's authorization limit is \$150,000. When the amendments (excluding Applicable Taxes) is in excest be signed by the authorization.	ccordance with the value of a TA and its	TPSGC atteste(nt) que La limite d'autorisation modifications (excluant les taxes app	le contenu de c du client est 150 licables) dépass	lient autorisé et/ou l'auto cette AT est conforme au 0,000 \$. Lorsque la valeu se cette limite, l'AT doit ê ctante de TPSGC pour a	ix conditions du contrat. ur de l'AT et ses stre signée par le client
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Authority certify(ies) that the content of this TA is in acconditions of the Contract.  The client's authorization limit is \$150,000. When the amendments (excluding Applicable Taxes) is in excess be signed by the authorized client and forwarded to the Authority for authorization.  Name of Technical Authority / Nom de l'autorité technical Authority / Row & Ro	value of a TA and its so of this limit, the TA must le PWGSC Contracting	La limite d'autorisation modifications (excluant les taxes app autorisé et transmise à CASTOY KARIE Signature	le contenu de codu client est 156 dicables) dépass l'autorité contrauthority / Nom de NGUA	pette AT est conforme au 0,000 \$. Lorsque la valet ce cette limite, l'AT doit é ctante de TPSGC pour a ligitally signed by CASTONGL DN: C=a, C=a, C=a, CU=cra-adr CU=PERSONEL, SERIALNUMBER=2019058112. CN=CASTONGLAY KARFIGAN Reasont: ON author of this Location: I am the author of this Location: Potet: 2020-01-261-56-56. Foxit PhantomPDF Version: 9.4	IX conditions du contral ur de l'AT et ses etre signée par le client autorisation  Date JAY KARIEANNE c, 2701000 + NE document